### POSTER BOARDS

### LIFE CYCLES - A COMMUNITY DRIVEN PUBLIC ART PROJECT

SIJIA CHEN STUDIO PART 1: ICON DESIGN

Bicycle inspired visual elements
The wheels' designs will be developed through the project's community engagement program. The public can nominate specific nature inspired figurative
images(e.g. animals, plants, etc.) to be included, and submit their own original designs that they believe represents the natural beauty and heritage of Emeryville

Design #1

Design #2

Design #3

Signage

**Applications** 





**TRAIL** 



r b A II

Design #1 Community Engagement Example





Submission: A sea otter

### Final Logo Design

### Design #2 Community Engagement Example

Prompt: What insects do you think are the most important to a healthy ecosystem? Reponses: Bees & Butterflies



Final Logo Design

### Design #3 Community Engagement Example



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Submission: Roaming butterflies and pollinating bees

Final Logo Design



### LIFE CYCLES - A COMMUNITY DRIVEN PUBLIC ART PROJECT

SIJIA CHEN STUDIO

HOLDEN STREET PLAZA

PART 3: STREET PLAZA SCULPTURES • Inspired by bicycle wheels and nature, these placemaking sculptures provide seating areas, interactive experiences, and intimate settings for viewers to closely observe the sculptures' form and visual content

• All images shown through the artworks' perforations are placeholders, the final designs will be developed and selected through the project's community engagement program











HOLDEN STREET PLAZA

HAVEN STREET PLAZA





### LIFE CYCLES - A COMMUNITY DRIVEN PUBLIC ART PROJECT

### SIJIA CHEN STUDIO

PART 2: Street Furniture Attachments

•The street furniture artworks will infuse color and life onto the monochromatic lean bars, fences, bus shelters, and light poles. Figurative depictions of local plants and animals will transform 40th street into an ecosystem of exploration, taking the public on a treasure hunt to discover each work •The animals, plants, and images shown through the artworks' perforations are placeholders. The public can nominate specific nature inspired figurative images(e.g. animals, plants, etc.), and submit their own original perforation designs













**Bus Shelter Attachments** 









Fence Attachments

Light Pole Attachments







# What's Growing, Emeryville? Playful Nature Sculptures at Enormous Scale

We are inspried by the blend of creative and industrial energy, as well as the blend of nature and man-made spaces in Emeryville. Our proposal aims to match the playfulness and strong graphic nature of existing artwork, to scale up the color scheme of the natural environment, and to add a size and subject matter that hasn't been seen yet.

## OUR DESIGN GOALS ARE:

### 1) THE BIGGEST IMPACT

We believe COLOR AND SIZE have the greatest impact in place-making art. Not only do big structures call attention to the project, they work as photo opportunities and wayfinders. We propose four unique plaza sculptures, along with multiple streetscape elements that add an eye-catching addition to every block of the map.

### 2) ALWAYS HANDMADE

All of our designs are based on original drawings, papercuts and hand-built models. We believe in retaining the slightly imperfect hand of the artist which keeps the work from looking computer or Al generated and speaks to your artist-made past. This proposal blends the team's specialties as public artists: Addie Boswell's communitybased murals and graphic illustrations and Matt Cartwright's large, organic sculptures.

### **3) COMMUNITY-BUILT**

As visiting artists, we are guests in your house, and our design process starts with you. Through workshops, worksheets and social media, we will gather art and ideas from citizens to form the Wayfinding toon and the Community Tapestry art. Citizen feedback will also inform the Plaza Installations in large and small ways.

Note: Because this is a collaborative proposal, much of the detail will change based on community input and architectural reviews. Consider the streetscape designs as placeholders at the moment.



### WAYFINDING ICON

ce the onliant "Signs of the Imes" art, we would stick to the simplicity of the original bits and pedestrian rns, but with a wist. Through community workshops and social media outreach. Addle will ask the mmunity to re-inagine this icon in different ways – by adding to the bike itself, by rennking the mmuter, and even by cutting the icon apart and resulting it. Client's icleas will give a large value of mixed: cons – some examples are shown below. The artist team will compile and edit these down to service ficials icons to the community to vice on.



### MATERIALS & PROCESS After brainstorming with the community, and compiling all

torainstorming with the community, and compiling all the ideas and art they are will not share. Addie latt make paper models and architectural drawings of the final sculptures and fait pieces. These will ally be uploaded and made into graphic files and sent for engineering review. Here are some of theil storming images for this project: paper models. Collages and drawings.



It primary material is powder-coated steel, chosen for its durability and its professional finished look. All the zaz Installations are made in Matt Carwhight's signature organic style, which uses staten bere and fatt r which are codi-chored through chilling and manipulating by hand. Hower thopers and Leat Lourge toppers the made of lighter-weight aluminum to save weight and allow for more staping. All joints are welded and need (neuluring bare flanges), which are balled to pre-existing concrete surfaces. In the case of soft-mounting att can build a concrete footer below grade.



All metal pieces are weldec (at left) or laser-cut (at right) nowder-coated with Prismat









Icon on City Kiosk

Icon on City Finger Board

Icon on City Directional Signage The insulfacors for the plana investment and scipmain in name. Table plana and todo one large comthat invites viewing. The viewer sees one of Sau arimital table are polycited by spinse a basely point of the represent. At the set of the spinse and the spinse of the spinse at the set of the spinse of the spinse set of the spin other spinse of the spinse of the spinse set of the pointed toward the ground. There engging birdes, are vision in nature, and they are back fit and vivid, they evolve suprove and design?

Togethier, these 3 components are meant to coelebrate Emergetile. Oraphic elements and place installations are inostated throughout the 40th Street site in order to make an inter-connected elements experience; one-that offers new insights upon repeat visit.

Artists | UrbanRock Design

### 40th Street Streetscape Project I Emeryville, CA

Rolling Along / Icon-- for Wayfinding Signage



### **Rolling Along / Streetscape Artwork**

40th Street Streetscape Project | Emeryville, CA

A series of 20 graphic drawings of local fauna righting on self-powered wheeled vehicles will be attached to streetlight poles and but stations along 40th Street. This playful rendition of personified animals riding along the multi-modal path is meant to inspire delight and a series of place.

These images are to be double sided (imagery on both sides), and printed with a durable process by Fossil Graphics. Final artwork including selection of animals evoking Emeryville would be selected during community engagement sessions. Artists | UrbanRock Design



40th Street Streetscape Project I Emeryville, CA

Jeanine Centuori & Russell Rock



all Concept & Identity of Place

An and graphics hashed by the defining characteristics of the GT drawing values has and drawing hashed by the definition of the trawine values as fitted to stress bit points pain for using the type of many stress and the stress bit points pain for using the point stress of the travel by points address and stress of an extent the travel of the bits bits of the travel bits one stress of the travel by points address address and the travel of the travel of the bits of the bits bits of the travel bits of the bits bits of the bits bits of the bits bits of the bits bits of the bits bits of the wa are reconceived as eddy file spaces often found a parking and curving inland from the bay atmutate a 1 upland at the bioretention basin. Each plaza edup traures that once graced the Emeryvile shoreine, 5 of each plaza. ur plazas are individual artworks. Emeryville Connects (bikes & co aptures one of these themes, it f r block) include details from the lose or from afar I All Are The 12 g characteristics of ersity), Art & Innovation affixed to street-light po seryville's natural setting. concrete bands rippling on the urban grid leading reminiscent of the e concrete relate the he works in the plaz plazas create The artworks,

aun Dun

A.PTURES (4 with forms 3D scanned to preserve a reprodu-ne 0° claim X 3' thek steel pipe (same as light poles) mm. 10 restrikion planters. or parts, each 5' tip(x 4' wide x 4' deep weighing up to 200 ry to 15', thick cast Forton grpsum with literginss and integ b) to 15' thick cast Forton grpsum with literginss and integ ating on exposed surfaces

etable NY: Do y trans-weight and y kindline interest parents weight and by Do y trans-toware. Additional object using waiter glass key key and embedded https:// glast.com/object/windline/box/weight parents/weight and transformation to an expected and an empirical set and a parent set of the parent weight parent mich VD shows ground a extension to 10<sup>2</sup> Neight care by the parent of the parent parents/weight parents/weig Trigh x & write x 4" deep weighing up to 200 Be, or 500 Be total, cast Forton gypsum with filterglass and integral pigment with add rushing water glass by Keim mineral paints. Saorificial anti-graffit o week by solar panel embedded in top.

ED CONCRETE BAN t stainless steel 6" hig Phys. Constructs also ambedded in concrete jowing) Phys. X's wide allowed to flat bar by 55 rods. bands, avg. 5' wide x \*/- 10' length, within existing po nown utility lines.

red scored concrete ninimum of 3' from ki



## Plaza Sculptures

























The so rutural spirit of artwork ensemb the sou unique bland of the al shortbuild for the of in the proposed con sectives the early anothers the alon, graphic form, blan, graphic form.

























BAY TRAIL









BAY TRAIL



PETE AND MELANIE and their two sons live in Eugene, Oregon. They have been married since 1956 and have been collaborating since well before that. Over the past 15 years, they we been awarded over 30

ool of the Art Institute of Chicago in and sculptural installations with re erials. Pete rece ions in a

ears and laught art in public schools internationally, and his work has cations ranging from Art in America Not! Melanie has worked as a graphi



Francisco Bay Area. He received a Master of Fine Arts from UC Berkeley Art Practice in 2014. He also attend-ed The San Francisco Art Institute JOEY ENOS (Community Outreach Partner) is an artist based in the San and The School of the Art Institute of Chicago, receiving a Bachelor of

WAYFINDING CONOGRAPHY

Fine Arts Degree, Joey has been working to capture and document the history of the Emeryville Kludhats Sculp-tures. CCA and Enos received a Cal Humanities grant to collect oral histories for the Robert Sommer Photography collection at The California College of Art Archives.

## ONCEPT DRAWINGS



SPIRIT OF E'VILLE celebrates the interplay between two specific aspects of Emeryville's creative character:

The flora and fauna that inhabit the uniquely rich environment of the bay and shoreline ecosystem; and

invented sculptural beings that inhabited the flat landscape alongside them for over two de

Our team shares a long-standing interest in the work of self-staght antists and particularly in antist-built envi-ronments. We've been tremendously excited to learn about the rich history of sculpture-making that was such a prominent part of Emergeille's identity during the time

### that this practice flourished. We're very much inspired to bring to the 40th Street Streetscape a sense of the self-molivated creativity that spontaneously appeared... morphed... metastasized...and then finally vanished from the Emeryville Mudflat Sculpture Garden. It is our honor to review and celebrate the historical legacy of this unique to review and tradition throughout the **Spirit** of

**IMAGERY and COMMUNITY INPUT** 

of Eville is a free-flowing mixt of Emeryville along with the im Mudflats sculpture garden era for every element in **Spirit** mixture of the actual wildlife he invented creatures of the n era. The artwork will create

> across the length of 40th Street will provide venues f Emeryville's iconic and beloved sculptural beings to v again be knit into the visual fabric of the community. an intermingling between real, ren ined residents of the shoreline. Im aprovide venues for alptural beings to once of the proembered, and imag-gery-rich installation

All of the specific creatures populating the artwork will be determined with input from Emeryville resi-dents via actensive community outreach efforts cen-tered on the *Mudfaat Maker* West Celebration. All imagery will be translated into a cohesive visual language and graphic style, as she concept drawings and models own in our mockups,

This group of initial symbols represents our effort to graphically bring together sev-eral characteristic aspects of Emeryville:

COLLABORATION We thrive on the collaborative process, and constantly seek out opportunities for new cre-ative partnerships and local community input

 the community's inventive spirit; and
the city's current forward momentum the bay environment;

We are delighted to have the chance to in-vite Emeryville native, artist/historian Joey Enos into our team. We expect to rely on Joey's insight and understanding to help insure that we can appreciate Emeryville's particular identity in a way that will be nec

EDESTRIAN WAYFINDING SIGNAGE EXAMPLES

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BAY TRAI

inent place in Err

essary to designing successful, responsive public art and iconography. We're grateful to have Joey's guidance as we seek out the many local voices needed to

assemble the visual vocabulary of the Spin-It of Fulle answork. And we look forward to working with this community in an ex-tended week-long conversation (see below) that will lead us to ance-appropriate icon to represent Emeryville's forward motion.

### Community outreach will be coordinated with our team's community liaison, Joey Enos. COMMUNITY OUTREACH FRAMEWORK

# **Emeryville Mudflats Maker Week Celebration**

Our team will be in residence in Emeryville to present a decli-cated week-long mini-featival celebraring the Mudflas sculp-tures and the wildlife of the Bay. A series of vockshops and artmaking activities, co-hosted by local partner organiza-tions, will provide opportunities for community members to celebrare the Mudflast actual and invented contaures, and to explore artmaking through the creative use of reclaimed

IN-PERSON AND ONLINE SURVEYS will seek community members' input into the creatures that should inhabit the 40th Street public artwork.

MUDFLATS MAKER WEEK will: celebrate Emeryville's vital artistic history with current res-idents who may or may not have been here to experience the sculptures themselves:

- provide hands on opportunities for community members to participate in this local artistic tradition that emerged on the Mudflats from the creative reuse of found materials; and
- create an outlet for direct creative input into the specific im agery to be developed into the 40th Street public artwork.

SAMPLE QUESTIONS:

What is your favorite memory of the Mudflats sculptures? Did you have any favorite sculptures? Please rank your top three among the following Mudflat sculpture creatures.... (mage list here) Name a favorite local animal or plant that lives in Emeryvilit What is it about this creature that you like?

for you? Why? is there a creature that represents or symbolizes Emeryville

SAMPLE WORKSHOP EXERCISE: Using reclaimed materials, we'll make sculptures and collages of your favorite Emeryville wildlife. Together we'll write short.

tories (just a few sentences) about this creature -- where you incounter it, what you like (or dislike) about it, how it has at-

= lamppost/bus-shelter post-mounted installation

plore various construction techniques and fastering systems to make small structures out of these materials. Then, using paint pens and other marking toost, we'll embediath these con structions with your writings about your creature. COMMUNITY INPUT INTO THE PUBLIC ARTWORK tracted your attention, and what its most notable features are Then we'll use recycled cardboard, paper, and other materials to build sculptural structures and make collages. We'll exved, recorded

All participants' creations will be pho and tallied, to help our team learn wi earn what anim

emblematic of Emeryville to those who live here. By offering opportunities to creatively interpret the area's wildle, we look to draw out an understanding of which of Emenyvile's creatures hold significance among people in the community. The input we receive from these creative workshop activities represents a high level of consideration and engagement from community participants. We expect that some of the creature design that come out of these workshops will make their way into the various public art elements

25 unique post-mounted installations (approximately 50 individual panels) = bus shelter glass treatme

.

PROPOSED PUBLIC ART

ART

**6 bus shelter glass treatments** 4 unique plaza sculptures

Alla concer

= plaza installation location













## 25 Unique Post-Mounted Metal & Glass Tile Installations\* on Lampposts & Bus Shelters

t 50 Inc ary in si They a is, contained in a robust frame minum. Surface finish is powed of (III)

Each cell within (The Bat Ray mo 5 thin an ally cut tile. arate tiles.) The very durable ed with si

of the panels ne giass and metal protected by a ITa 10 of polycau

PLAQUES

5 AINTENANCE the event that ie accompanies each d at eye level on each at the creature depicted

be cut by al tiles glass, f the tiles ace-

### POLE ATTACHMENT

d by elters, t tight rtical udes a rough k to the

### 6 Unique Bus Shelter Glass Treatments

Full color graphics, similar in style to the metalwork im-agery throughout the other artwork, are printed as inter-layers and integrated into the three street-facing window panels of but shelters.

These graphics mimic the brilliant, swirling, texture and color of the hand-crafted glasswork used throughout the plaza sculptures and post-mounted works.

The windows of the shelters take on the look of custor glasswork, closely coordinated with these other art el-ements. Digitally printed interlayers are provided and installed by Tolar Mfg. during construction of shelters.













## What's Growing, Emeryville?

Playful nature sculptures at enormous scale.



## Addie Boswell & Matt Cartwright c) 2024

# Conceptual Proposal by Addie Boswell & Matt Cartwright What's Growing, Emeryville?

**Our Inspiration:** 

MudFlats Art, the history of stockyards and dog races, and the more contemporary designs like the murals and 'Signs of the Times' reflect those blends. There is also a scaled up a touch!) We will add to that with a size and subject matter that we didn't see collaborative creativity of your history, and the color scheme of nature and city (though proposal aims to match the playfulness and strong graphic nature of existing art, the in town. nice blend of natural and man-made structures and spaces in your corridor. Our We were struck by the blend of creative and industrial energy in Emeryville. The

more. The answers that your citizens give to the question "What's Growing?" will inform isn't just about bike lanes, after all, it is about livability and equal access and much more diverse and intangible aspects of the community. The Streetscape Improvement all of our art, most notably the Wayfinding Icon and the Community Tapestry. Our theme: What's Growing, Emeryville? refers to plants and flowers as well as the

### Our main aims:

- 3 catching addition to every block of the map. plaza installations and our streetscape elements, we propose having an eyethemselves organically, through citizen attention over time. Between our large work as photo opportunities and wayfinders, and are designed to advertise place-making art. Not only do big structures call attention to the project, they THE BIGGEST IMPACT. We believe color and size have the most impact in
- 2 these designs are made expressively for Emeryville and won't be found from looking computer or AI generated and speaks to your artist-made past. All of ALWAYS HAND-MADE. All of our designs are based on original drawings and anywhere else in the country. 'hand of the artist' that is notable in your other installations. This keeps the work papercuts and hand-built models. We believe in retaining the slightly imperfect
- $\underline{\omega}$ COMMUNITY BUILT. Our proposal uses your citizens as partner artists and and inspire all of our large structures, and we see thus as a necessary first step and Wayfinding lcon. These community ideas and interactions will also inform drawings, and collages from the community to work into the Community Tapestry advisors throughout the entire design process. Through the worksheet exercise, in our design process. (See example worksheets/workshops at end) hands-on workshops, and social media activity, we will gather ideas, words,



shell-white, dialed up just a tad. We would be interested in painting some of the regular

including light-pole-green, sedge green, sign-yellow, flower-power pink, and opalescent

Our color scheme is based on the natural and built structures of the community,

Color Scheme

option adding another public participation aspect.

nature of our installations also increases community involvement, with the mural on a website or Instagram page and sending creative updates. The interactive would also aim to be transparent with our process, by posting the community art dune grass or dragonflies, and we could add these ideas into our designs. We paradise, and lotus. Are these relevant to your citizens? Maybe they will mention included many local plants we are drawn to, such as the fiddlehead fern, birds-ofbased on community input and architectural reviews. As one example, we have Note: Because this is a collaborative proposal, much of the detail will change

streetscape options (like the benches and bike plinths) with our color scheme if the city

### Materials

stainless steel pipe and flat bar that are cold-formed through rolling and manipulating by look. All large structural forms are made in Matt Cartwright's signature organic style of concrete base at or below ground hand. All joints are welded and sanded, including base flanges which are bolted to a Our proposal rests on powder-coated steel for its durability and professional finished



case of soft-mounting, Matt can build a concrete footer below grade. (at right) needed. These are spaced across the sculptures and bolted directly to concrete. In the the design. Mounting flanges are 3/8 - 1/2" thick to make 5x5" plate footing flanges as typical working size is 1 1/2 - 3" pipe and 1/8 - 3/16" flat bar though he can modify to fit Stainless Steel pipe and Stainless Steel flat bar comes in a variety of sizes. Matt's

Besides the raw materials Matt uses to build, other supplies include:

- Prismatic Powders for the bright powder-coating colors,
- provided through TAP Plastics Colored Acrylic Tubing for the Cat-tails, and acrylic disc for Lotus Bench,
- Aluminum Composite Panels, many brands. NovaColor Mural Paint for any mural portions, with possible painting on



### PROCESS

After brainstorming with the community and compiling all the ideas and art they are willing to share, Addie and Matt make paper models and architectural drawings of the final sculptures and flat pieces. These will eventually be uploaded and made into images for this project: paper models, collages and drawings. graphic files and sent for engineering review. Here are some of their brainstorming



cut, welded and tabbed, As you can see from these pictures, using strong metal shapes casts interesting shadows and interplays of light on the surface throughout the day. businesses that he contracts specialized work out too. First all metal pieces are laserthat matt partners with are: Fabrication happens as a partnership between Matt Cartwight Designs and local After the metal is sanded smooth, it is sent to the powder-coater. Current businesses

- Advanced Powdercoating in Portland
- IRC Aluminum & Stainless, who do water-jet and laser cutting



# Community Collaboration Plan

wall," as she has found that the impact of public art relates directly to the ownership citizens, not to speak for them. Addie's mural philosophy is "more hands on the your citizens have over it. As visiting artists, we are guests in your house, and our aim is to reflect your

# Icon Design through Worksheets (see end pages)

and public places along the corridor, with a QR code or Instagram page that makes it about an Icon Remix. These worksheets could be handed out through your channels easy for citizens to turn their ideas into the artists Worksheets are open-ended and playful, made to get citizens brainstorming broadly

# Artist Residency & Public Workshops

also be posted to a website or Instagram page about the project. and others suggested by the committee.) These tactile workshops use our team's about hosting a workshop for employees or customers. (Especially Peets, IKEA, Pixar, to share their art with the project, Addie will photograph it for their records. The art could favorite brainstorming materials: paper and mixed-media recyclables. If citizens choose Farmers Markets, but she would also reach out to larger businesses along the corridor theme. Her favorite spaces to visit are libraries, schools and outdoor events like give a short presentation on the project, and lead the community in making art from the During a two week residency in Emeryville, Addie would visit multiple public spaces

aspects, write comments, and generally converse more. The residency is also a chance for the team to meet with the architects and city planners to further tweak design ideas These workshops will also act as informal listening sessions with the community, as Design Boards would be posted and attendees will be encouraged to vote on favorite

# Workshop Blurb: Join the Public Art!

architectural models for our new streetscape. Your designs will be displayed on the designs. All ages welcome and no experience necessary. We want your ideas! community webpage, integrated into a community tapestry and used to inform all of the follow the process she uses to make thumbnail sketches, collages, and small Join public artist Addie Boswell to learn about the new 40th Street art elements and

work they helped design. continue to 'participate' in the project long after it is done by visiting and using all the social media updates. They may get to participate again when the Community Tapestry involved through the voting process (when finalist icons are presented) and through <u>Community Updates</u> While Addie and Matt work the community art into final designs, the public can still be but not least, our work is meant to be interactive in form, and the community can is ready to be either painted or installed, and at the Grand Opening Celebration. Last

# COMPONENT ONE: Wayfinding Icon



even by cutting the icon apart and rebuilding it. (see the sample worksheet for

icon in different ways – by adding to the bike itself, by remaking the commuter, and bike/pedestrian icons, but with a twist. Addie will ask the community to reimagine this

Like the brilliant 'Signs of the times' Art, we would stick to the simplicity of the original

website and potentially create stickers or posters of some of the favorites.

the community invents. We can also post the community ideas on social media or a bicycle in a stylized manner, a fun addition to the basic bike or a whole new figure that compile three-five finals for the community to vote on. This may be a rendering of the examples.) Their ideas will give a large variety of 'remixed' icons, and from these we will



# STREETSCAPE INSTALLATIONS

at eye-level and above, that are brightly colored, and that have recommendations most to the public and the committee. These are our initial a playful bent. All installations follow the color scheme and can be mixed-and-matched, depending on which elements appeal To make the biggest impact, we've chosen installations that are

### Flower Toppers (16)

heads and two twining leaves, each flower topper Costumes for your streetlights! With two flower

corridor: Flower Toppers would be placed strategically between provides a pop of color and a chuckling surprise to drivers and walkers. These are estimated placements on the cover, on both sides of the street. the plaza blocks on light poles that are unhindered by tree



# The Community Tapestry

within the corridor, and we are proposing these three options, can be configured in various ways to be useful gathers during outreach activities. The Tapestry Addie would design the tapestry from the art she Up to 400 square feet of community art!

which can be mixed and matched depending on feedback.

- 5x10' Metal panels applied singly or in groupings 5x10' Painted mural panels applied as a group in 1-2 places
- Bus Shelter overlays, applied as needed

would look forward to working with stake holders to find the countless other potential spots for the community mural (Bon easily accommodate a freestanding piece. But there are 'bookends' for the streetscape map, with locations on or near 40TH & San Pablo Avenue and 40TH & Hubbard Avenue. pieces, and the more visible the better! best spot for this. The community will be very invested in these Mot yellow building, stone plaza, bus depot and more.) We We recommend using the Community Tapestry first as Those blocks both have empty fencing stretches that would

# FLOWER TOPPERS

strategically between the plaza blocks on light poles that are unhindered by tree cover, on both sides of the street. Costumes for your streetlights! With two flower heads and two twining leaves, each flower topper provides a pop of color and a chuckling surprise to drivers and walkers. These are estimated placements on the corridor: Flower Toppers would be placed -



Leaves and flower petals laser-cut from aluminum, shaped and powder-coated. They an

aluminum, shaped and powder-coated. They are to slide onto band clamps and then be or glued together to hold their form around c diameter pole. Band clamps can then ned to cinch the pieces on, but removed



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Imagine the different flower toppers the community can imagine! We anticipate having three different designs to spread

on engineering review.

# THE **COMMUNITY TAPESTRY PROCESS**

The Community Tapestry is a compilation of ideas, sketches, and collages taken from your citizens and put into one overarching design, which is either narrative or pattern-based. This is a similar process Addie uses for every public art project. Here is a simplified example

1) GATHER IDEAS around a theme. In this case, the communal theme is "What's Growing Emeryville?" and would include all plant/flower imagery as well as more intangible ideas like creativity, kindness or commerce.

## 2) Compose Ideas into a large,

professional design. Often this is sized to a particular wall or place, but for Emeryville, I would compose a more open-ended wallpaper design which could be utilized in different ways. Here is the same design in black and white and color, featuring some overlapping flower shapes.





3) Fabricate & Install Tapestry. The Tapestry can be configured in various ways to be useful within the corridor. Depending on community and committee input, as well as the final locations chosen for the Tapestry, the design will be either laser-cut from 5x10' stainless steel metal panels, or painted on 5x10' ACM (Aluminum Composite) materials. These can be mounted on metal posts to sit above ground or attached to existing fencing and walls, with property or city permission.

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Possible instllation outside the Pottery and More Store as ideal, as panels could be installed in the median beyond the sidewalks ther potential spots



{Panels can also be layered together to create a two or three colored panels like these. In addition, elements of the panel can be painted with bright pops of color.



### Option N Painted Mural Panels

A good chance to get more color in the Corridor, painted murals can also involve the community in the making. These panels can be arranged in any combination to cover a large surface with one design, or a repeated image could be posted at various points throughout the corridor on a single panel.



an example of NovaColor on ACM panels outside a

grade on both ends of the corridor. These lightweight Aluminum Composite Sheets Murals can make a huge impact, and I would be excited to post murals at or above installation along the empty fence or outside walls of the Black & White Liquor Store (with owner permission) would be an ideal introduction point to the Corridor. (ACM) to allow for easy relocation when screwed directly onto existing walls. Possible





**Bus Shelter Overlays** 

Window cling is a low-cost alternative to add to bus shelters. A simple translucent pattern will tie the art together and prevent graffiti, as well matching with your nature-based posters on the sides. These can be applied to all existing and new shelters in the corridor.











# PLAZA INSTALLATIONS

include seating with the primary function to grab attention and humans at a snakes-eye view.) All of these are interactive and glass to nature with enormous plant structures (putting provide places to rest and places to meet up. These are our big impact structures and put a magnifying

# Hubbard Street Full Plaza: The Giant Lotus Bench

it casts at different times of the day. Seats 6-8. and beautiful twisting form. The surprise bonus is the shadows Made of stainless steel pipe and flat rod to mimic the Nuttall's Lotus, the Lotus Bench is a showstopper for its size, color,

# Holden Street 1/2 Plaza: Cattail Islands

plaza or broken into small islands and spaced throughout be built as one long sinuous form along the inside of the  $\frac{1}{2}$ the sunlight. With its variety of heights, the cat-tail bench can Amber acrylic rods join powder-coated pipe and rod to glow in

# Haven Street Full Plaza: Shell-ter and Soft Seating

lounge and play. When surrounded by stone benches, this slightly-sloped Wetpour rubber, inviting kids and adults to shell continues onto the ground plane with the addition of With the same basic structure as the Lotus, the open clambound to be a destination for families. provides the most protected 'soft' place in the corridor and is

# Watts Street 1/2 Plaza: Two Leaf Lounges

of Paradise and Douglas Iris tops are shown here, but flower built seats for perfect sitting and bookend the plaza. The Bird With a tripod design, each leaf lounge provides three handtops can be changed based on community input.

## HUBBARD STREET PLAZ **Giant Lotus Bench**

Inspired by the bright colors and interesting form of the Nuttall's Lotus, the Lotus Bench is a showstopper for its size, color, and beautiful twisting form. The surprise bonus is the shadows it casts at different times of the day. Seats 3-4 on each side of the middle 'table' so 6-8 capacity.

Stainless Steel pipe and flat bar with 5x5' plate footing flanges. Middle table in cast-concrete, topped with 12" acrylic disk that filters light (in same amber as cattails.) Size can be modified to fit plaza better. Powdercoated flower-power pink and caution yellow





12' wide

3.5





Original placement ideas above takes as middle point in the plaza. However, in light of access, may be best if used at the new placement below. Potential to create two smaller lotus that seat 3-4 or modify in other ways.





## HAVEN STREET PLAZA Shell-ter & Soft Seating

Inspired by the bay and the historic Shellmounds, this design creates a yawning calm shell that is built on top and continues onto the ground plane with the addition of Wetpour rubber. If this surface is slightly sloped into a concave shape, it will continue the shell illusion and invite kids and adults to lounge and play. When surrounded by stone benches, this provides the most protected 'soft' place in the corridor and is bound to be a destination for families.

heavy. Shell-ter from different directions. Powder-coating the shell-ter in iridescent white with purple/pink undertones will keep it from feeling Stainless Steel pipe and flat bar make a balanced structure that is 1600 lbs heavy. The cantilevered design is grounded by a six-point base which is bolted directly to concrete. Paper model shows the 12











Original Intent for this structure was to have it centrally located in the open plaza, with the cantilevered shell backing up to a wall or street edge and making the shell-ter feel protected. In light of access, best place mounts would seem to be below, with structure backing up to cut-off. Rubbapour surface does not impede right-of-way if no slope and can be modified to fit any ground-plane. Without approximately 8' diameter of surface area for soft seating, the intent of design would be nullified and it would need to be reworked. Perhaps two miniature shell-ters that are kid sized?



# View B: Looking from Haven St sidewalk south to 40<sup>th</sup> St








# Plazas: Compiled Structural Details

# Watts Street 1/2 Plaza: Two Leaf Lounges

Materials: Stainless Steel pipe  $(1\frac{1}{2} - 3^{"})$ , Stainless Steel flat bar  $(1/8 - 3/16 \times 3^{"})$  with  $\frac{1}{2}^{"}$  thick 5x5' plate footing flanges. 1/8" aluminum or acrylic may be used for flower parts. flower heads span 5-7' depending on unique shapes. Size: Tripod base covers roughly 5' in diameter, heights to top of flowers 12' at highest,

chosen, (flower-power pink, caution yellow and iridescent white) Color: powdercoated deep green base, with top colors depending on ultimate flower

directly to concrete. Weight: 600 lbs each Installation. Tripod design has three base plates welded on. Anchor bolts screwed

## Holden Street 1/2 Plaza: Cattail Islands

Materials: For sating: Stainless Steel pipe ( $1\frac{1}{2}$  - 3"), Stainless Steel flat bar (1/8 -3/16 x3") with  $\frac{1}{2}$ " thick 5x5' plate footing flanges. Cat-tail heads are extruded acrylic rods, in translucent Amber, 4"x 1-2' and leaves are made of 1/8-3/16" aluminum Size: Single bench spans 18" high x 1" deep, so double bench is 18" by 2', and round

island is 18" x 3' diameter. Heights of cattails range from 8-12' yellow flowers that filter sunlight. Color: powdercoated deep green base, with two-tones of green on leave and amber-

Installation: Anchor bolts on both edges of seating are screwed directly to concrete. Can be moved by man-power if no crane access. Weight: 600 lbs island, 800 lbs  $\frac{1}{2}$  bench

# Haven Street Full Plaza: Shell-ter and Soft Seating

Materials: Stainless Steel pipe (1½ - 3"), Stainless Steel flat bar (1/8 - 3/16 x3") with  $\frac{1}{2}$  thick 5x5' plate footing flanges. 1/8" aluminum or acrylic may be used for flower parts. needs, though negates some of the soft-seating potential. well as soft seating on ground plane. This can be modified to fit Plaza and access Size: Initial proposal was for structure 12-16' tall, 12' diameter to overhang shape as

Rubbapour in intersecting circles in pink and green. Color: powdercoated iridescent white with potential darker color on outer shell).

Weight: 1600 lbs Installation: Crane Required

**Hubbard Street Full Plaza: The Giant Lotus Bench** Materials: Stainless Steel pipe  $(1\frac{1}{2} - 3^{n})$ , Stainless Steel flat bar  $(1/8 - 3/16 \times 3^{n})$  with  $\frac{1}{2}^{n}$  thick 5x5' plate footing flanges. Middle table in cast-concrete, topped with 12" acrylic disk that filters light (in same amber as cattails.)

Size: 3.5' deep x 8' tall x 12' long. Can be modified to fit plaza better.

Bolted directly to concrete. Weight: 1000 lbs. Installation. Six base plates along with concrete middle make bench extremely stable Color: powdercoated flower-power pink and caution yellow for Nuttall's Lotus

Installation: Flat-bed to dead-end site. Man-power possible if no crane access

### BUDGETS

A note about budgets:

installation sites may change based on community feedback and discussions with city built around community collaboration and many details of the structures as well as for individual components until we have a design contract. Additionally, our designs are personnel and engineers. As freelance, we don't have the capacity to obtain multiple bids or engineering reviews

budgets to cover these. California rules, additional engineering reviews, welding certificates, installation plans may need to be added, and we've built room into the Installation & Miscellaneous and Cartwright Design (primarily powder-coating & laser-cutting.) Depending on For the Proposal, we are including estimates for all work outsourced from Addie Boswell

### ATTACHMENT B:

Description	Budgeted Amount
Artist's design, labor and project management fees	\$83,000
All subcontracted and consultant costs, including engineers,	\$125,000
electricians, fabricators, studio and overhead costs	
Materials, fabrication, transportation, delivery, storage and	\$232,000
installation of all art components	
General and Automobile liability, Professional Liability and	\$2,000
Fine Arts Insurance as Required	
Traffic controls and permit fees, as necessitated by any work	n/a
obstructing the right of way	
Fees associated with permits for the project such as electrical	\$8,000
permits	
A mandated contingency justified by the uncertainties	\$50,000
presented in the Conceptual Design Proposal	
All other costs associated with the Artwork	

<b>Rough BUDGET by Element</b>			
Category	Details	Cost Per	TOTAL
Icon & Community	Includes workshops at		000,00\$
Outreach	various venues, managing		
	outreach through		
	worksheets/QR codes,		
	designing print-ready icon		
Streetscape Installations			\$110,000
	16 Streetlight Flower	\$4000 ea	\$64,000
	"Collars" with two heads and		
	2 leaves mounted to bands		
	Community Tapestry Design, made into 10x20' (200 sf)	\$43,000	\$43,000
	Metal Fence Panels		
	OR 10x40 Mural painted on	\$43,000	
	Vinyl Wraps for bike shelters,	\$750 ea	\$3000
PLAZA Installations			\$185,000
	WATTS Leaf Lounges w) single seats	\$15,000 ea	\$30,000
	2) HOLDEN Cat-tail Bench		\$30,000
	3) HAVEN Giant Lotus Bench:		\$55,000
	4) HUBBARD SHELL-TER		\$70,000
Dolivory &	and play area		
INSTALLATION:	Scissor lift for flower collars,		000,000
	footings and potential crane		
	to move large pieces.		
MISC	Insurance, architectural		\$10,000
Contingency	10%		\$50,000
¢			

Boswell/Cartwright Proposal 7/24

## **ESTIMATED SCHEDULE**

## committee & stakeholders Winter, 2024: Community Outreach & Research/meetings with

- Artist Residency Scheduled for
- Artist Residency Scheduled for workshops
  Worksheets and social media
- Meetings with engineers/architects and city for design requirements
- Secure all additional contractors/installers needed for project.
- Media Blitz for gaining community input
- cattail tops, misc. R&D, to-size models made for new elements like flower toppers.

## Spring, 2025 (March-May)

- Final Proposed Designs and Specifications sent to structural engineer
- Smaller components printed/made
- Wayfinding Icon proposed and voted on
- Final Graphics of Icon finished
- Commuinity Tapestry design started

## Summer-Fall, 2025:

- Community paint-out organized
- Installation of all elements
- Truck and install crew secured
- Grand 'opening' planned

### Maintenance

ownership and pride in the longevity of the pieces and are the first to spot damage. Community Involvement is the best way to protect work over time, because citizens take

- beauty of Matt's ribbed design is that water and debris doesn't get stuck in the washing and with normal non-abrasive cleaners, recommended once/month. The Plaza structures, flower collars and metal panels can be cleaned with powerpieces, and they don't provide large canvases for graffiti.
- year review to decide on facelift of powder-coat. direct sun day after day. Sun Damage: Powder-coating will eventually fade, especially when exposed to 10-15 years with very little change. Recommend 10
- can fix. Artists can provide fix colors. examples show. Graffiti removal materials or spot painting in powder-coat colors Most of the damage we've seen to the steel pieces are human-caused, as these
- year warranty standard. RubbaPour Surfaces will degrade over time, especially if they get good use. 10-
- color. Graffiti should be dealt with by city personnel at once wall face and sun exposure. Recommend 10 year review to decide on facelift of Painted Murals on surfaces will hold their color for 10-20 years, depending on
- upkeep, tightening or replacing as needed Bolt attachments to concrete should be checked regularly during regular street
- Flower Collars need engineering and testing for wind resistance

examples of damage to powder-coating at ground level.



## About the Artists

hundreds of collaborators over the f.. of t. She has made art with grade school students dignity of ordinary citizens. AS a community-based artist, Addie often works with theme, her mission is to capture the inherent beauty of regular days and the inherent a story. Stories revolve around shared work and a sense of place or season, and always Addie Boswell is an artist and writer who specializes in collaborative public art that tells work can be found in ... retirees, hospital patients, houseless communities, gril schouts and library patrons. Her reference real and specific communities with strong lines and vivid color. No matter the

combined to evoke and enhance emotion. He enjoys any project that allows him to work surplus material that he encounters, as he likes to see how things can be rearranged or materials. He is most prolific with metal, but will use just about any new, reclaimed or for his organic shapes and innovative design, which often makes use of recycled design and build functional art, sculpture and custom furniture. He is known especially in a scale and place with which people can interact. His sculptures can be found in Colorado, California, Washington, and Oregon. Matt Cartwright is a designer and fabricator who has worked around the country to

scrapped bikes that graces the eastside Skyline and Boswell's board book "Go, Bikes creative history of Emeryville and are eager to work with your citizens commuters. (In fact, Cartwright is famous for the "River City Bicycle People" made of working outside of the studio. They are long-time Portland residents and bike Go!" was inspired by her rides through the city.) They resonate with the scrappy and Though working In different media, both Boswell and Cartwright like collaborating and



**COMPARABLE PROJECTS: Cartwright** 

18

Boswell/Cartwright Proposal 7/24



19



PETE AND MELANIE and their two sons live in Eugene, Oregon. They have been married since 1956 and have been collaborating since well before that. Over the past 15 years, they we been awarded over 30

ool of the Art Institute of Chicago in and sculptural installations with re erials. Pete rece ions in a

ears and laught art in public schools internationally, and his work has cations ranging from Art in America Not! Melanie has worked as a graphi



Francisco Bay Area. He received a Master of Fine Arts from UC Berkeley Art Practice in 2014. He also attend-ed The San Francisco Art Institute JOEY ENOS (Community Outreach Partner) is an artist based in the San and The School of the Art Institute of Chicago, receiving a Bachelor of

WAYFINDING CONOGRAPHY

Fine Arts Degree, Joey has been working to capture and document the history of the Emeryville Kludhats Sculp-tures. CCA and Enos received a Cal Humanities grant to collect oral histories for the Robert Sommer Photography collection at The California College of Art Archives.

## ONCEPT DRAWINGS



SPIRIT OF E'VILLE celebrates the interplay between two specific aspects of Emeryville's creative character:

The flora and fauna that inhabit the uniquely rich environment of the bay and shoreline ecosystem; and

invented sculptural beings that inhabited the flat landscape alongside them for over two de

Our team shares a long-standing interest in the work of self-staght antists and particularly in antist-built envi-ronments. We've been tremendously excited to learn about the rich history of sculpture-making that was such a prominent part of Emergville's identity during the time

### that this practice flourished. We're very much inspired to bring to the 40th Street Streetscape a sense of the self-molivated creativity that spontaneously appeared... morphed... metastasized...and then finally vanished from the Emeryville Mudflat Sculpture Garden. It is our honor to revive and celebrate the historical legacy of this unique to revive and tradition throughout the **Spirit** of

**IMAGERY and COMMUNITY INPUT** 

of Eville is a free-flowing mixt of Emeryville along with the im Mudflats sculpture garden era for every element in **Spirit** mixture of the actual wildlife he invented creatures of the n era. The artwork will create

> across the length of 40th Street will provide venues f Emeryville's iconic and beloved sculptural beings to v again be knit into the visual fabric of the community. an intermingling between real, ren ined residents of the shoreline. Im aprovide venues for alptural beings to once of the proembered, and imag-gery-rich installation

All of the specific creatures populating the artwork will be determined with input from Emeryville resi-dents via actensive community outreach efforts cen-tered on the *Mudfaat Maker* West Celebration. All imagery will be translated into a cohesive visual language and graphic style, as she concept drawings and models own in our mockups,

This group of initial symbols represents our effort to graphically bring together sev-eral characteristic aspects of Emeryville:

COLLABORATION We thrive on the collaborative process, and constantly seek out opportunities for new cre-ative partnerships and local community input

 the community's inventive spirit; and
 the city's current forward momentum the bay environment;

We are delighted to have the chance to in-vite Emeryville native, artist/historian Joey Enos into our team. We expect to rely on Joey's insight and understanding to help insure that we can appreciate Emeryville's particular identity in a way that will be nec

EDESTRIAN WAYFINDING SIGNAGE EXAMPLES

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BAY TRAI

inent place in Err

essary to designing successful, responsive public art and iconography. We're grateful to have Joey's guidance as we seek out the many local voices needed to

assemble the visual vocabulary of the Spin-It of Fulle answork. And we look forward to working with this community in an ex-tended week-long conversation (see below) that will lead us to ance-appropriate icon to represent Emeryville's forward motion.

## Community outreach will be coordinated with our team's community liaison, Joey Enos. COMMUNITY OUTREACH FRAMEWORK

# **Emeryville Mudflats Maker Week Celebration**

Our team will be in residence in Emeryville to present a decli-cated week-long mini-featival celebraring the Mudflas sculp-tures and the wildlife of the Bay. A series of vockshops and artmaking activities, co-hosted by local partner organiza-tions, will provide opportunities for community members to celebrare the Mudflast actual and invented contaures, and to explore artmaking through the creative use of reclaimed

IN-PERSON AND ONLINE SURVEYS will seek community members' input into the creatures that should inhabit the 40th Street public artwork.

MUDFLATS MAKER WEEK will: celebrate Emeryville's vital artistic history with current res-idents who may or may not have been here to experience the sculptures themselves:

- provide hands on opportunities for community members to participate in this local artistic tradition that emerged on the Mudflats from the creative reuse of found materials; and
- create an outlet for direct creative input into the specific im agery to be developed into the 40th Street public artwork.

SAMPLE QUESTIONS:

What is your favorite memory of the Mudflats sculptures? Did you have any favorite sculptures? Please rank your top three among the following Mudflat sculpture creatures.... (mage list here) Name a favorite local animal or plant that lives in Emeryvilit What is it about this creature that you like?

for you? Why? is there a creature that represents or symbolizes Emeryville

SAMPLE WORKSHOP EXERCISE: Using reclaimed materials, we'll make sculptures and collages of your favorite Emeryville wildlife. Together we'll write short.

tories (just a few sentences) about this creature -- where you incounter it, what you like (or dislike) about it, how it has at-

= lamppost/bus-shelter post-mounted installation

plore various construction techniques and fastering systems to make small structures out of these materials. Then, using paint pens and other marking toost, we'll embediath these con structions with your writings about your creature. COMMUNITY INPUT INTO THE PUBLIC ARTWORK tracted your attention, and what its most notable features are Then we'll use recycled cardboard, paper, and other materials to build sculptural structures and make collages. We'll exved, recorded

All participants' creations will be pho and tallied, to help our team learn wi earn what anim

emblematic of Emeryville to those who live here. By offering opportunities to creatively interpret the area's wildle, we look to draw out an understanding of which of Emenyvile's creatures hold significance among people in the community. The input we receive from these creative workshop activities represents a high level of consideration and engagement from community participants. We expect that some of the creature design that come out of these workshops will make their way into the various public art elements

25 unique post-mounted installations (approximately 50 individual panels) = bus shelter glass treatme

.

PROPOSED PUBLIC ART

ART

**6 bus shelter glass treatments** 4 unique plaza sculptures

ALL CONCHE

= plaza installation location













## 25 Unique Post-Mounted Metal & Glass Tile Installations\* on Lampposts & Bus Shelters

t 50 Inc ary in si They a is, contained in a robust frame minum. Surface finish is powed of (III)

Each cell within (The Bat Ray mo 5 thin an ally cut tile. arate tiles.) The very durable ed with si

of the panels ne giass and metal protected by a ITa 10 of polycau

PLAQUES

5 AINTENANCE the event that ie accompanies each d at eye level on each at the creature depicted

be cut by al tiles glass, f the tiles ace-

### POLE ATTACHMENT

d by elters, t tight rtical udes a rough k to the

### 6 Unique Bus Shelter Glass Treatments

Full color graphics, similar in style to the metalwork im-agery throughout the other artwork, are printed as inter-layers and integrated into the three street-facing window panels of but shelters.

These graphics mimic the brilliant, swirling, texture and color of the hand-crafted glasswork used throughout the plaza sculptures and post-mounted works.

The windows of the shelters take on the look of custor glasswork, closely coordinated with these other art el-ements. Digitally printed interlayers are provided and installed by Tolar Mfg. during construction of shelters.













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## ABOUT OUR TEAM

## PETE GOLDLUST & MELANIE GERMOND, Artists

his work has been featured in publications ranging from *Art in America* to *Ripley's Believe It or Not!* Melanie has worked as a graphic designer for over 20 years and taught art in public schools. materials. Pete received his MFA from the School of the Art Institute of Chicago in 2001. He has exhibited internationally, and murals, metalwork, concrete, terrazzo, glass; and sculptural installations with recycled plastics, textiles, and other since well before that. Over the past 15 years, they've been awarded over 30 public art commissions in a variety of media: Pete and Melanie and their two sons live in Eugene, Oregon. They have been married since 1996 and have been collaborating

## JOEY ENOS, Community Outreach Partner

College of Art Archives. Enos received a Cal Humanities grant to collect oral histories for the Robert Sommer Photography Collection at The California Fine Arts Degree. Joey has been working to capture and document the history of the Emeryville Mudflats Sculptures. CCA and 2014. He also attended The San Francisco Art Institute and The School of the Art Institute of Chicago, receiving a Bachelor of Joey Enos is an artist based in the San Francisco Bay Area. He received a Master of Fine Arts from UC Berkeley Art Practice in

### CONCEPT

# SPIRIT OF E'VILLE: IT CAME FROM THE MUDFLATS ...

Spirit of E'ville celebrates the interplay between two specific aspects of Emeryville's creative character:

- The flora and fauna that inhabit the uniquely rich environment of the bay and shoreline ecosystem; and
- 2 The invented sculptural beings that inhabited the mudflat landscape alongside them for over two decades

artmaking tradition throughout the Spirit of E'ville artwork. identity during the time that this practice flourished. We're very much inspired to bring to the 40th Street Streetscape a sense Our team shares a long-standing interest in the work of self-taught artists and particularly in artist-built environments. We've Emeryville Mudflat Sculpture Garden. It is our honor to revive and celebrate the historical legacy of this unique homegrown of the self-motivated creativity that spontaneously appeared... morphed... metastasized... and then finally vanished from the been tremendously excited to learn about the rich history of sculpture-making that was such a prominent part of Emeryville's

translated into a cohesive visual language and graphic style, as shown in our mockups, concept drawings and models. visual fabric of the community. The specific creatures populating the artwork will be determined with input from Emeryville Imagery & Community Input: The content and imagery for every element in *Spirit of E'ville* is a free-flowing mixture of the actual wildlife of Emeryville along with the invented creatures of the Mudflats sculpture garden era. The artwork will create an residents via extensive community outreach efforts centered on the Mudflats Maker Week Celebration. All imagery will be length of 40th Street will provide venues for Emeryville's iconic and beloved sculptural beings to once again be knit into the intermingling between real, remembered, and imagined residents of the shoreline. Imagery-rich installations across the

Emeryville's creative culture.) momentum. (The ray's slotted-eye shape is a hinted reference to early animation, and the medium's prominent place in characteristic aspects of Emerwille: the bay environment; the community's inventive spirit; and the city's current forward Wayfinding Iconography: This group of initial symbols represents our effort to graphically bring together several

Joey's guidance as we seek out the many local voices needed to assemble the visual vocabulary of the Spirit of E'ville artwork. and local community input. We are delighted to have the chance to invite Emeryville native, artist/historian Joey Enos into our Collaboration: We thrive on the collaborative process, and constantly seek out opportunities for new creative partnerships tone-appropriate icon to represent Emeryville's forward motion. And we look forward to working with this community in an extended week-long conversation (see below) that will lead us to a identity in a way that will be necessary to designing successful, responsive public art and iconography. We're grateful to have team. We expect to rely on Joey's insight and understanding to help insure that we can appreciate Emeryville's particular

# COMMUNITY OUTREACH FRAMEWORK

Community outreach will be coordinated with our team's community liaison, Joey Enos.

# EMERYVILLE MUDFLATS MAKER WEEK CELEBRATION

artmaking through the creative use of reclaimed materials. provide opportunities for community members to celebrate the Mudflats' actual and invented creatures, and to explore and the wildlife of the Bay. A series of workshops and artmaking activities, co-hosted by local partner organizations, will Our team will be in residence in Emeryville to present a dedicated week-long mini-festival celebrating the Mudflats sculptures

### Mudflats Maker Week will:

- the sculptures themselves; celebrate Emeryville's vital artistic history with current residents who may or may not have been here to experience
- provide hands-on opportunities for community members to participate in this local artistic tradition that emerged on the Mudflats from the creative reuse of found materials; and
- create an outlet for direct creative input into the specific imagery to be developed into the 40th Street public artwork.

public artwork. In-person and online surveys will seek community members' input into the creatures that should inhabit the 40th Street

### Sample questions:

- What is your favorite memory of the Mudflats sculptures?
- Did you have any favorite sculptures?
- Please rank your top three among the following Mudflat sculpture creatures.... (image list here)
- Name a favorite local animal or plant that lives in Emeryville
- What is it about this creature that you like?
- Is there a creature that represents or symbolizes Emeryville for you? Why?

## Sample workshop exercise:

systems to make small structures out of these materials. Then, using paint pens and other marking tools, we'll embellish stories (just a few sentences) about this creature — where you encounter it, what you like (or dislike) about it, how it has Using reclaimed materials, we'll make sculptures and collages of your favorite Emeryville wildlife. Together we'll write short these constructions with your writings about your creature. materials to build sculptural structures and make collages. We'll explore various construction techniques and fastening attracted your attention, and what its most notable features are. Then we'll use recycled cardboard, paper, and other

## Community input into the public artwork:

draw out an understanding of which of Emeryville's creatures hold significance among people in the community. The input we various public art elements. participants. We expect that some of the creature designs that come out of these workshops will make their way into the receive from these creative workshop activities represents a high level of consideration and engagement from community emblematic of Emeryville to those who live here. By offering opportunities to creatively interpret the area's wildlife, we look to All participants' creations will be photographed, recorded and tallied, to help our team learn what animals are most

# SCOPE OF PROPOSED PUBLIC ART

- 25 unique post-mounted installations (approximately 50 individual panels)
- 4 unique plaza sculptures
- 6 bus shelter glass treatments

## PLAZA INSTALLATIONS

## **4 UNIQUE PLAZA SCULPTURES**

- daylight shining through the colored glasswork provides a dramatic street presence at each spot. Each plaza will feature one unique stainless steel and glass sculpture featuring an iconic local animal. Ambient
- outreach efforts centered on the Mudflats Maker Week Celebration. Rabbit. The final mix of creatures, like all elements of this proposal, is to be determined with input from community include local shoreline animals as well as Mudflats Sculpture creatures, like the iconic Monty Python-inspired Trojan Our physical model for one of the plazas features the endangered California Red Legged Frog. Other plazas may
- intersection, providing an instantly recognizable wayfinding landmark at each site. and back. They may be positioned to be visible at a distance from both 40th Street and the cross street at each plaza Two of the plaza sculptures are large, approximately 6'h x 6'w, and two are smaller, roughly 3' x 3', all with a depth of ~6". Each of these vividly colored translucent structures forms an animal profile that can be viewed from both front
- . Sculptures may be paired with a companion post-mounted installation from the streetscape installations scope.

### CONSTRUCTION

- interwoven forming a sturdy network of 1/4" thick bars, tightly spaced with gaps of up to only 1/2" wide. design, which encases a glasswork and polycarbonate inner structure. The cut linework of the metal plate is densely Each sculpture consists of a 1/4" thick laser-cut stainless steel, cage-like outer structure, featuring a linework
- ٠ cushioned stainless steel framework allowing for thermal expansion/contraction. Tiles are approximately 8-10" at their longest side, individually formed using Bullseye glass, fused to a thickness of 9 mm, and extremely durable (see sample). The core inner structure is composed of vividly colored, translucent fused glass tiles set into a silicone/rubber
- glass by 1/2" to fully protect the glass from any impact. Both faces of the sculpture are removable to allow access for replacement or cleaning of the polycarbonate if needed. On either side of the inner glasswork are two layers of clear polycarbonate. The polycarbonate is spaced from the
- ٠ placed on paved areas, sculptures may be mounted at ground level. areas, these footers may include an above-ground rise of up to 24" high, to elevate the sculpture above plantings. If Each sculpture is mounted on an 18" diameter cylindrical footer of reinforced concrete. If placed within the garden

# Notes about the Red Legged Frog sculpture physical model:

- ٠ layers as the full-scale sculptures The structure of this model includes the same fused glasswork and protective polycarbonate and stainless steel
- stainless steel rim that contains these layers (among other scaled fabrication differences.) The layers of this model's structure are visible around the edge of this model. The actual sculpture will include a solid

4

# STREETSCAPE INSTALLATIONS

# (\*about 50 individual panels) 25 UNIQUE POST-MOUNTED METAL & GLASS TILE INSTALLATIONS\* ON LAMPPOSTS & BUS SHELTERS

robust frame construction made of laser-cut aluminum. Surface finish is powdercoat with a UV protective clear Panels vary in size up to 48" max. They are composed of vividly colored, 9mm thick fused-glass tiles, contained in a

topcoat.

- Individual tiles are cushioned with silicone/rubber within each protective cell. separate tiles.) The small, chunky dimensions of each tile make them very durable and resistant to damage. Each cell within the panel frame holds an individually cut tile. (The Bat Ray physical model, for instance, contains 30
- ٠ Both sides of the panels are also protected by a layer of polycarbonate, set between the glass and metal frame

### Pole Attachment

strapping attaches the artwork to its post. Extended posts on bus shelters are provided by Tolar Manufacturing, the vendor providing the shelters. of a bus shelter post). Each bracket includes a minimum of two slots (not included on model), through which stainless steel physical model. The legs of each U-channel bracket sit tight against a vertical post (either a lamppost or the vertical extension Panels are positioned at or above 12' high, attached by a bracket similar to the U-channel stand attached to the Bat Ray

### Plaques

information about the creature depicted in the installation above. An engraved stainless steel plaque accompanies each installation. Plaques are mounted at eye level on each pole, providing

### Maintenance

any loose fragments from falling out of the frame. Individual tiles can be removed and replaced when necessary. The artists replacement tiles to be cut by local vendors as well. are able to provide replacement tiles if needed. Digital files of all tilework will also be provided, allowing the city to order In the event that damage should occur to individual tiles, the polycarbonate layer will contain any damaged glass, and prevent

# **6 UNIQUE BUS SHELTER WINDOW TREATMENTS**

- and integrated into the three street-facing window panels of bus shelters. Full color graphics, similar in style to the metalwork imagery throughout the other artwork, are printed as interlayers
- sculptures and post-mounted works. These graphics mimic the britliant, swirling texture and color of the hand-crafted glasswork used throughout the plaza
- The graphics may be as transparent as necessary for safety purposes
- Digitally printed interlayers are provided and installed by Tolar Mfg. during construction of shelters The windows of the shelters take on the look of custom glasswork, closely coordinated with these other art elements.

Pete Goldlust & Melanie Germond   Conceptual Design Proposal for 40TH STREETSCAPE PUBLIC ART, Emeryville, CA 5 MATERIALS / DIMENSIONS / MAINTENANCE
Maintenance Exterior surfaces of sculptures are stainless steel plate with a nondirectional sanded finish. Any scratched surfaces may be touched up by re-sanding with a hand-held orbital sander. Clean exterior with water as necessary. Hose off occasionally to remove debris. No bleach.
Face plates are attached with tamper-resistant (Torx head) stainless steel screws. Faces may be removed for maintenance of internal and external components.
On either side of the inner glasswork are two layers of clear polycarbonate (min. ~0.118" thick). The polycarbonate is flush mounted behind the ¼" plate surface. It is spaced away from the glass to fully protect the glass from any impact.
Any damaged glass tiles and polycarbonate panes may be individually removed and replaced. The artists are available to provide these parts. The artists will also provide the City with digital files suitable for re-cutting these parts as necessary. This can be done by a local laser-cutting/waterjet cutting vendor with commonly available equipment.
POLE-MOUNTED TILE PANEL INSTALLATIONS Approximate weight of sculptures is 10-35 lbs. each. (most are 10-20 lbs.) Dimensions: max 48" h x 24" w x 1.5" d (most are under 24" x 24")
Structural frames are laser-cut aluminum. Surface finish is powdercoat with a UV protective clear topcoat. Interior tiles are 9mm thick fused-glass tiles. Each tile is sandwiched between two layers of ~0.118" polycarbonate, to protect against impact damage. Each tile is seated with silicone/rubber glazing.
Components are assembled with stainless steel and aluminum barrel screws. Faces may be removed for maintenance of internal and external components.
Pole Attachment Panels are positioned at or above 12' high, attached by a bracket similar to the U-channel stand attached to the <i>Bat Ray</i> physical model. The legs of each U-channel bracket sit tight against a vertical post (either a lamppost or the vertical extension of a bus shelter post). Each bracket includes a minimum of two slots (not included on model), through which stainless steel strapping attaches the artwork to its post. Extended posts on bus shelters are provided by Tolar Manufacturing, the vendor providing the shelters.
Maintenance In the event that damage should occur to individual tiles, the polycarbonate layer will contain any damaged glass, and prevent any loose fragments from falling out of the frame. Any damaged glass tiles and polycarbonate panes may be individually removed and replaced. The artists are available to provide these parts. The artists will also provide the City with digital files suitable for re-cutting these parts as necessary. This can be done by a local laser-cutting/waterjet cutting vendor with commonly available equipment. Clean exterior with water as necessary. Hose off occasionally to remove debris. No bleach.
BUS SHELTER WINDOW TREATMENTS Digitally printed interlayers are provided and installed within existing window panes by Tolar Mfg. during construction of shelters. No additional maintenance is necessary.

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### INSTALLATON

Equipment to be used

## PLAZA INSTALLATION SCULPTURES

Installation: One reach forklift (6000 lb. cap.). Attachment to concrete footer using stainless steel J bolts. Plywood to be used to protect ground surfaces. Permits obtained as required. Delivery: One 20' flatbed

## POLE-MOUNTED TILE PANELS

Delivery: One 12' trailer Installation: One 19' scissor lift. Permits obtained as required.

## BUS SHELTER WINDOW TREATMENTS

Digitally printed interlayers are provided and installed by Tolar Mfg. during construction of shelters.

### TIMELINE

Design and approvals / October 2024 – October 2025 Community outreach - Maker Week Celebration / March 2025 Fabrication / October 2025 – March 2026 Installation / Summer 2026

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## **BUDGET NOTES**

Budget spreadsheet and estimates are attached.

## **POST-MOUNTED PANELS / ESTIMATE #1**

SendCutSend invoice #SU48K050 includes fabrication of aluminum components for one art panel. Cost: \$616.94 per panel

Cost: \$96.18 per panel SendCutSend invoice #S856B230 includes fabrication of polycarbonate components for one art panel.

Glass purchased from Bullseye Glass / Cost: \$80 per panel

Hardware components purchased from McMaster-Carr and others / Cost: ~ \$40 per panel

Assembly (in-house) / Cost: \$750 per panel

Per-panel cost: \$1583 ea. Total cost (50 panels): \$79,150

## **POST-MOUNTED PANELS / ESTIMATE #2**

Supereous estimate #2024187: Aluminum (5' x 10' x 1/8") per sheet: material (\$345) + laser cutting (\$551) = \$896 x 3 sheets Cost: \$2688 total

Aluminum (5' x 10' x 1/4") per sheet: Cost: \$10,689 total Supereous estimate #2020782: material (\$739) + laser cutting (\$788) = \$1527 x 7 sheets

Custom Powderworks estimate (phone): Powder coating / \$800 per sheet x 10 sheets Cost: \$8,000 total

Glass purchased from Bullseye Glass / Approx. \$80 per panel x 50 panels Cost: \$4,000 total

Hardware components purchased from McMaster-Carr and others / Approx. \$40 per panel x 50 panels Cost: \$2,000 total

Glass cutting and assembly (in-house) / \$750 per panel Cost: \$37,500

Total cost (50 panels): \$64,877

## PLAZA SCULPTURES / ESTIMATE #1

4 Plaza sculptures, similar to Red-Legged Frog design DEKA estimate 8/16/24: \$167,000 Includes drafting, engineering, materials, fabrication, transportation, installation, concrete, site work

### Total cost: \$167,000

## PLAZA SCULPTURES / ESTIMATE #2

Supereous estimate 2020840: \$6,308 Materials, laser cutting

4 Plaza sculptures, similar to Red-Legged Frog design Includes materials, fabrication, transportation, installation, concrete, site work SO Metal estimate 8/18/24: \$36,100

# Total cost: \$42,408 ( does not include drafting, engineering)

Preliminary Artwork Production Budget / draft 8/15/2	<b>40TH STREETSCAPE PUBLIC ART</b>	Pete Goldlust & Melanie Germond
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5% 15% Notes

DESCRIPTION	Amount budgeted
Artist Design Fee	75,000
Project Management Fee	25,000
Plaza Sculptures / 4 sculptures	
Engineering, fabrication, concrete, delivery, installation, etc. (Estimate: DEKA)	167,000
Glass material and fabrication (by artists)	17,000
Post-mounted panels / 22 lampposts + 3 bus shelter posts (25 posts w/50 panels total)	
Fabrication, glass, assembly, etc. (Estimates: Supereous, Custom Powderworks)	64,900
Delivery	4,000
Bus shelter structural alteration / 3 post extensions (Estimate: Tolar Mfg)	4,500
Installation / inc. all equipment, materials, etc. (Estimate: DEKA)	5,000
Bus shelter interlayer graphics / 6 shelters	
Photography fees	6,000
Fabrication and installation (Estimate: Tolar Mfg)	30,600
Community Outreach / City Icon & Mudflats Maker Week Celebration	
Design (included in overall project design fee)	0
Travel (airfare/lodging/transportation/food)	7,500
Coordination / Joey Enos, Community Liaison	5,000
Administration	5,000
Workshops / Honoraria, publicity, misc. expenses	6,000
Materials / art supplies, publicity, printing, misc.	3,000
Professional services (additional engineering/surveying/electrical/etc.)	3,000
Studio overhead (project-related space/equipment/utilities/etc.)	8,000
Travel / installation (airfare/lodging/transportation/food)	4,000
Documentation of Artwork (photography/video)	1,500
Permits / Fees	1,500
Insurance (general & professional liability/auto/installation/etc.)	6,500
Contingency	50,000

\$500,000

10%





Jul 31, 2024 7:21 AM

otal: <b>\$403.59</b> <b>\$616.94</b> FREE <b>\$0.00</b> <b>\$616.94 PAID</b> Visa (x8903)	Item tc Subtotal: Shipping: Tax: Total:		Bill To:	Ship To: Sete Goldlust	Pa St
Qty: 3	-	Matte black powder	<b>5052 H32 Aluminum (.250")</b> 15.927 x 22.982 in Emeryville_sample_01_bat_rays_d05 _BEZEL.ai		ω
Qty: 2 )tal: <b>\$198.26</b>	ltem to	Matte black powder	<b>5052 H32 Aluminum (.125")</b> <b>15.927 x 12.824 in</b> Emeryville_sample_01_bat_rays_d05 _FACEPLATE.ai		N
Qty: 1	Item t	Deburring	<b>5052 H32 Aluminum (.125")</b> <b>5.604 x 5.716 in</b> Emeryville_sample_01_bat_rays_d05 _TW0_WEDGES.ai		





Aug 1, 2024 2:12 PM

Line



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Emeryville\_sample\_01\_bat\_rays\_d Polycarbonate-Clear (.118") 13.631 x 11.574 in

Qty: 2

07\_POLYCARBONATE.ai

Item total: \$96.18



DOWNLOAD INVOICE

Shipping: Subtotal: Total: Tax: Visa (x8903) \$96.18 PAID \$96.18 \$0.00 FREE

Supercous Laser Cutting, Waterjet Cutting Router Cutting & Fabrication
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### Invoice

20204187	3/18/2024
Invoice #	Date

Ship To

Pete Goldlust

**Bill To** 

			Quantity			
	L	Back .050" Front Middle ( .050" 5'x10' 1/8" 5'x10'			РО	
		C- 1/8"	Des	Due on receipt	Terms	
			cription	UofO	Project	
Payments,	Fotal					
/Credits		155.00 551.00 345.00 345.00	Price Each		Att	
\$0.00	\$1,196.00	155.00 551.00 345.00	Amount			

Thank you...we appreciate your business

**Balance Due** 

\$1,196.00

.050" 5052 Material .125" 5052 Material .187" 5052 Material .25" 5052 Material	03 Front B .125" 5052 Laser Cutting 03 Front B .187" 5052 Laser Cutting 03 Front B .25" 5052 Laser Cutting 04 Back 050" 5052 Laser Cutting	02 Front A .25" 5052 Laser Cutting 03 Front B .050" 5052 Laser Cutting	02 Front A .050" 5052 Laser Cutting 02 Front A .125" 5052 Laser Cutting 03 Front A .187" 5052 Laser Cutting	Description		<u>Customer:</u> Pete Goldlust	Laser Cutting - Waterjet Cutting Router Cutting & Fabrication	3
					Att:	Es		
138.00 341.00 547.00 739.00	197.00 284.00 464.00 88.00	788.00 110.00	183.00 326.00 482.00	Rate		tim	7/17	
				Qty		ate	7/2023	into
138.00 341.00 547.00 739.00	197.00 284.00 464.00 88.00	788.00 110.00	183.00 326.00 482.00	Total	roject		2020782	Fatimate #

								HIS DOCUMENT IS	P GOLDLUST SC PLEASE REDYCL	TE COINLIST
TOTAL	ſ							A PRELIMINARY ESTIMA	ROJECT NAME: CULPTURES LE THIS PAPER	TO:
	10.50% EMERYVILLE SAI	INSTALLATION	FABRICATION	SUBCONTRACTORS	MATERIAL	DESIGN DRAWINGS	GENERAL CONDITIONS	TE, AND NOT TO BE USED FOR OF		<b>NFKA</b>
\$166,514.04	LES TAX 10,306.54	32,800,00	43,200,00	20,000.00	34,957.50	4,500,00	20,750,00	FICIAL QUOTING PURPOSES	DEKA FABRICATION	ະ



The estimated numbers are for:

- Design-Detailing, Fabrication, and Installation of 4x Sculptures:
   a. Approximately 2x: 6'x6' and 2x: 3'x3' overall
- 0
- 0 Anchored into a concrete foundation 2x laser-cut 1/4" stainless steel faces, enclosing 2x protective polycarbonate sheets and 1x fused-glass layer (provided by artist), with protective rolled stainless rim

\*See attached redlined document for reference

Slides open. T. R. P. other find T.Xed 5.0 N è Sepils 1.2% ection View Concrete Buse T.B.P. TOP \* 0 0 0 0 0 Vy shirless steel / Polish #4 Glass 56:655 Stee . Section opens for Alless. larborat 2 pri othat

Poka Quet Notes helhi/ga

<b>Supercous</b> Laser Cutting - Waterjet Cutting Router Cutting & Fabrication	
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8/20/2024	Date
2020840	Estimate #



1	Estin	nate	
<u>Customer:</u> Pete Goldlust			Ĺ
		-	
	Alt		Emeryville
Description	Ra	ie Qty	Total
Bezel, Laser Cutting, 5'x10' 1/4" 304 Mill Stainless Steel	2,086	5.00 1	2,086.00
Face, Laser Cutting, 5'x10' 16ga 304 #4 Stainless Steel Holder, Laser Cutting, 5'x10' 1/4" 304 Mill Stainless Steel	2,210	5.00 1 1	2,216.00 2,006.00

### SO Metal, LLC ESTIMATE 8/21/24 NON-BINDING



\$36,100

\$800 ea

\$1,600

\$2,500

TOTAL

Shipping (includes four sculptures)

Installation

Excavation / Concrete

\$4,000 ea

\$16,000

# 40<sup>th</sup> Street Streetscape Project

UrbanRock Design [Russell Rock and Jeanine Centuori]

## PUBLIC ART PROPOSAL

An integrated art project for the City of Emeryville, CA



RUSSELL ROCK



## TITLE: ROLLING ALONG

### NARRATIVE

within Emeryville. into the Urban Streetscape with a playful rendition of the wide range of fauna found Our concept for the 40<sup>th</sup> Street Art Project embraces the theme of Bringing Nature

## 1. Streetscape Installation

specific animals, vehicles, and personality-types would be chosen. these "props" would be used to initiate community engagement sessions where the displaying differing personalities. The range of animals, wheeled vehicles, and animals that are personified as riders of a diverse array of wheeled vehicles while attached to streetlight poles and bus shelters with drawings (custom high pressure personality-types are meant to capture the spirit and ethos of Emeryville. laminate) that are double-sided (viewable from both sides). These drawings portray For the streetscape component, a series of about twenty episodic drawings would be As such,

### 2. Icon

displayed along the streetscape. This group of animals represent the comradery and drawing is that of a grouping of several animals derived from the collection that are icon would be further refined and finalized after community engagement sessions. collective spirit of the community- all are riding together on a path. The vision for the The icon is very much a work-in-progress. The concept displayed in this preliminary

### 3. Plaza Installations

would hold one large cone that invites viewing. The viewer sees one of four animals surprise and delight. against the sky, a squirrel in a tree, a raccoon on the ground, and a seal in the water. that are projected against a background that represents their habitat- a bird image These engaging pieces are visceral in nature- as they are back lit and vivid, they evoke The installations for the plazas are interactive and sculptural in nature. Each plaza

# TECHNICAL DATA- Streetscape Installations



### D-PL-CUSTOM HIGH PRESSURE LAWINATE PAVELS 1/2" THO' ACG\*\* ALUMINAT COMPOSITE GRAPHC\*\* PAVELS, 1/4" THICK LAWINATED ASSUREX, PRINTED BOTH SEES 10 VEAR LIGHTPAST GUIVANITE TO BE FASTIBLE TO 4 POLLET POLE

### Locations

board indicates locations. poles, and eight are to be attached to bus shelters. The Site Plan on the presentation There are (20) proposed streetscape artworks. Twelve are to be attached to street light

### Size

Each element is 2 ft high by 2 ft - 7 in wide by 1/2 inch thick.

## Weight and Material

parks. CHPL has an anit-graffiti coating and comes with a ten-year colorfast guarantee. by Fossil Industries. Graphics work is located in many public environments including state and national The material is Custom High Pressure Laminate (FOSSIL CHPL), a proprietary process Each piece weighs 17+ pounds. Fossi Fossil

# **Engineering and Attachment Details**

the purpose of maintenance. by a California Licensed Structural Engineer. These elements would be removable for The attachment detail for these artworks would be reviewed, approved, and stamped





similar to the detail that is used on the "insects" project that is located at City Hall in Emeryville. buckles. This detail would be reviewed and approved by a structural engineer. It is

### are shown on the boards. Locations **TECHNICAL DATA- Plaza Sculptures** There are (4) cones proposed, one in each plaza. Cone locations and imagery in each Haven Street Plaza (pointed toward tree) 2'.6" Watts Street Plaza .6 3'-9" (view height) 3'-9" (view height)


users, children, and adults who may bend slightly to see the viewport. view height for each cone is 3 ft – 9 in (45 inches) from the ground to the viewport. long, 2'-6 in in diameter at the large end, and 9 in in diameter at the small end. The The angle and orientation of each cone varies. This height accommodates wheel chair The cone shapes are all the same configuration and size. Each truncated cone is 6 ft

### Weight and Material

The weight of each sculpture is about 250 pounds. They are made of aluminum that

seams and connections are to be welded. Each sculpture is a different powder-coated and the vertical element is a 6-inch diameter tube with a 1/4-inch wall thickness. form is 1⁄4 inch, the round base plate is 3/8 inch thick, the image disc is 3/8 inch thick, would be powder-coated, each with a different color. The wall thickness of the cone color by Tiger Drylac with an anti-graffiti clear top coat. ⊵

### Powder-coat Colors:



## **Engineering and Footing Details**

would be reviewed and revised by an engineer. Here is an example of what we that we have used many times for our public sculptures. The exact specifications and stamped by a California Licensed Structural Engineer. envision. The footing and connection detail for these artworks would be reviewed, approved, This proposed detail is one



## **INSTALLATION** procedures & Timeline

and the installation of the streetscape artwork. securing equipment rentals, and coordination with the general contractor. We including: identifying staging areas at the site, obtaining traffic control permits, Upon final approval of the artwork, preparation would begin for the installations (UrbanRock Design) anticipate performing the installation of the (4) plaza sculptures

## Fabrication and Installation Timeline

Design Development	6 weeks
& Community Outreach	
Engineering and Permits	4 weeks
Fabrication of Art Elements &	12 weeks
Site Preparation / Foundations	
Shipping Artworks to Emeryville	1 week
Installation of Streetscape Artworks	1 week
Installation of Plaza Artworks	1 week

#### TOTAL TIME

25 weeks

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AMOUNT

500,000	<del>6</del>	TOTAL
\$54,800	\$54,800	Contingency
\$72,000	\$10,000 \$2,000 \$15,000 \$7,500 \$1,500	<u>Plaza Sculptures</u> Equipment Rental (bucket lift for 5 days) Equipment Rental / Extended boom forklift Traffic Control Fee Installation Labor for streetscape artwork/ 5 days Artist Travel (for installation)
	\$10,000 \$2,000 \$15,000 \$7,500 \$1,500	<u>Streetscape Artworks</u> Equipment Rental / bucket lift for 5 days Equipment Rental / Extended boom forklift Traffic Control Fee Installation Labor for streetscape artwork/ 5 days Artist Travel (for installation)
_\$9,000	\$1,000 \$8,000	Streetscape Artwork / Crating and Shipping to Emeryville, CA (4) Sculptures / Crating and Shipping to Emeryville, CA Installation
;264,200	\$236,000	(4) Plaza Sculptures (by Made in America, quote attached) Shipping
	\$17,200 \$1,000 \$10,000	<ul> <li>(20) Streetscape Artworks</li> <li>Production of Artworks</li> <li>(by Fossil Graphics, quote attached / tax added to quote)</li> <li>Hardware for Artworks Brackets, Buckles, and Band</li> <li>(from Warnco Banding Items, tax and shipping added to quote)</li> <li>Preparation of attachment mechanisms</li> <li>(by UrbanRock Design)</li> </ul>
100,000	\$90,000 \$5,000 \$5,000 \$	Artist Fee (18%) Structural Engineering Community Meeting (materials, travel) Fabrication and Material Costs
		Professional Fees

### ESTIMATES

## (20) Streetscape Artworks Graphics

TERMS: 60% De	Digital files must o Electronic layout p "-P" = Qustom Sh Holes; "MURAL" Shipping to zip co has a forklift on sit Quote valid 90 day of Sale (FossilGia thickness of graph	All FOSSIL graphi	1	Part Number ED12-052-PT4 99810	To: Russell Hoc UrbanRock I	FOSS
posit / Balance Net 10 After	oroform to Fossil File Prep G proofs provided at no charge- arted in Part Numbers ape; "T" = Threaded Insert - Indicates panels built to go de: 94608, Estimate based o de: 94608, Strands built to phics.com/terms), For instal phics.com/terms), For instal in to meet your requirements	cs feature 12-Color HD Print	Shipping Estimate is b necessary.	Oty         Double Sided External           20 h12" Double Sided External         Parrel Size: 24'H x 31           Custom Shape: 4 Three         Custom Shape: 4 Three           1         COLOR SAMPLE: (8"           1         Used in production for		
Delivery	uldelines (FossilGraphics.com) s; "-D" = Double Sided; "-H" = directly beside another panel. on destination being a business that packaging and insurance. packaging and insurance. tration into or to determine best liation into or to determine best s (FossilGraphics.com/guide).	ting and our Fossilized Surface®.	g sample, see File Prep Guide for M ased on destination being a non-resid	Description erior CHPL Graphic. 125"W eaded Inserts w/ Tamper Resistant Bo v 10" x 1/8") CHPL Created from of r color matching and resolution.		ES, INC
	Sut Shi ToT ToT Deposit After Delivery Amoun	g	erne that has a torklift if	olts. Silent Provided File.	uccount Executive: Linda ID #: 18521	QUOTE F DATE: 8-13-2 PAGE: 1
	stotal: spling: %Tax: AL: L Due: It Due	Stotal:	0.00	Each 778.00 40.00	Peters 80.01	710498
	15,600.00 871.00 \$16,471.00 \$1883.00 6,588.00	\$15,600.00	0.00	Ext 15,560.00 40.00		4

Please sign as your authorization to produce:

## Hardware for Streetscape Artworks

Date:	Cc:	To:	From:	Warr
Tuesday, August 13, 2024 at 07:37 AM PDT			Ron Felscher	ico Banding Items

Good morning Russell,

C25699	C206R9	D00999
3/4" BAND-IT 201SS Buckles 100/Box	BAND-IT 3/4" 201SS (.030) Band 100'/Roll -Red Tote	2-Bolt Straight Leg 200/300 SS Brack-It 50/Box
\$ 124.30/Box	\$ 87.50/box	\$ 504.66/Box

I would have to order the first item, probably a couple of weeks. The other parts are in stock.

We will pay the UPS shipping charge.

Thank you.

Ron Felscher Operations Manager Warnco, Inc.



### s(4) Plaza Sculptures

MIA Made in America Fine Art



Date	Ш
Estimate #	stimate

8/12/2024

53

Name / Address URBAN ROCK DESIGN		
URBAN ROCK DESIGN	Name	ne / Address
	URBAN	N ROCK DESIGN

	14 - 16 WEEKS TO FINISH JOB	20-6 in x 1/4 in THICK TUBE	(2) 4' x 8' x 3/8"	MATERIAL ALUMINUM (8) 4' x 8' x 1/4 in PLATE	POWDER COATING	1/4 PLATE FOR CONE SHAPE	ROLLING PLATE	FABRICATION OF 4 CONE SCULPTURES VIEW CONES ON PEDESTAL DIMENSIONS OF EACH CONE 6' LONG x 2'-6" DIAMETER x 9" DIAMETER	Description	
									Qty	
Total				8,000.00	8,000.00		10,000.00	200,000.00	Rate	
\$236,000.00				8,000.00	8,000.00		10,000.00	200,000.00	Total	Project



manufacturing defects that cause fading, delamination, peeling, blistering or cracking Aluminum Composite Graphic<sup>™</sup> and AG – Acrylic Graphic graphics will be free of purchase, that under normal use its' CHPL – Custom High Pressure Laminate; ACG<sup>TM</sup> – Fossil Industries, Inc. (Manufacturer) warrants for a period of ten (10) years from the date q

under "Resources" and contains information that may affect your warranty and the enjoyment of your purchase Installation Guide" and "Care & Maintenance". These documents are found on our website To ensure the best results from your purchase, please review Fossil's "Panel Thickness and

protection and peace of mind. your graphic, ensuring your design remains up-to-date and aligned with your current needs or applied towards a replacement panel. You have the flexibility to make subtle modifications to ร other economic loss. Fossil is committed to your complete satisfaction and as such our liability limited to, loss of anticipated profits, costs of installation, repair, removal, disposal, shipping or special, indirect, collateral, incidental, consequential or exemplary damages such as, but not connection with or arising from the purchase, use, or inability to use this product, or for any have no obligation or liability to any person or entity for any loss, damage or injury in will any oral statement constitute a warranty or amend a specific warranty. Manufacturer shall preferences. Your new graphic is covered by its own 10-year warranty. This ensures continuous Manufacturer does not give warranty as to merchantability or fitness for a particular use, nor solely to provide a 100% credit for any unused duration of your warranty, which can be

state to state, therefore, some limitations stated above may not apply to you. warranty gives you specific legal rights, and you may also have other rights, which vary from factors affecting the image that dramatically impact the standard viewing of the graphic. This material and image degradation is expected over time as normal wear. It applies solely to installation or fabrication will be disallowed. This limited warranty acknowledges that some Claims resulting from misuse, willful destruction, acts of God, force majeure, improper This warranty is supplied to the buyer in place of all other warranties, expressed or implied.

Information, Order # and your actual Warranty. Please save that document for your records. With each order you will receive a "Project Detail Sheet" which includes your Contact

## MAINTENANCE PLAN: Streetscape Artworks

### CLEANING FOSSIL PANELS

graphics looking clean and bright. smooth and inert that an annual soap & water washing should be all that is needed to keep FOSSIL Graphics are protected with our exclusive finish and are easy to clean. The surface is SO

avoid cleaning panels when they are exposed to sunlight remove any surface particles that may become abrasive when wiping the surface. Additionally, Pre-Clean: Prior to applying any chemical solutions, it's important to pre-clean the panel to

or when they are hot, as this can affect the cleaning efficacy and the panel's integrity

include 3M Citrus Adhesive Remover, Alcohol, Household Bleach, Clorox All Purpose Cleaner, difficult stains like permanent marker and dried latex paint. Other recommended products graffiti, several effective solutions are available. Our top recommendation is Krud Gutter a damp cloth. For more comprehensive cleaning, disinfection, or removal of tougher stains and 40, and Windex. Be sure to follow the manufacturers suggestions. Fantastic Multi-Purpose Cleaner, Plastix Cleaner, Simple Green, Soap & Water, Vinegar, WD-Graffiti Remover by Rust-Oleum®, an environmentally friendly product proficient in removing Mild Cleaning Agents: For mild cleaning needs, many stains can be effectively wiped off using

satisfied with the result of the cleaning, follow cleaning agents procedure with a detergent rinse and a water rinse. If you are not other solvents should be tested on a small, non-conspicuous area first. Use a soft cloth and Hydroxide; Hydrochloric Acid and Sulfuric Acid (35%). Do not use Goof Off or MEK. Use of removal. Once again, our top recommendation is Krud Gutter Graffiti Remover by Rustthose with grease bases paint or ink, will require the use of a strong cleaning agent for Strong Cleaning Agents: Tough stains on FOSSIL Graphics: Some staining agents, especially Solvent; Kerosene; Turpentine; Lacquer Thinner; Mineral Spirts; Chromic Acid (30%); permanent marker and dried latex paint. Other recommended products include: Xylene Oleum®, an environmentally friendly product proficient in removing difficult stains like

suggestions. repeat the procedure until the stain is removed. Be sure to follow the manufacturers

### PANELS: MAINTENANCE

sealant such as Nu Finish (www.nufinish.com) polymer auto wax or Thompson's Waterproofing of your FOSSIL Graphics looking vibrant and to protect the edges from chafing, apply a liquid Wood Protector® to the sides of your panel on an annual basis The top surface of your FOSSIL Graphics does not require any maintenance. To keep the sides

### PANELS: SURFACE REPAIR

treatment such as Meguiar's® PlastX<sup>TM</sup> Clear Plastic Cleaner & Polish. Minor blemishes, nicks and light scratches can be concealed using a polymer based surface

## MAINTENANCE PLAN Plaza Sculptures

The piece has the following powder-coated colors: Tiger Drylac Color RAL 6034, RAL 5012, RAL 6011, and RAL 1016

### CARE AND MAINTENANCE

on exterior applications needs to be cleaned 2 – 3 times per year. Once applied, powder coating needs to be properly cared for, just like any paint. Powder used

### Pressure cleaning

possible fluoride, and other minerals commonly found in hard water or ground water in certain states. coated finish, and pay attention to where the wind blows the water from sprinkler systems. the finish as well. Avoid using unfiltered tap water or ground water when cleaning the powder the pressure is strong enough to move the metal surface, it may be strong enough to damage harsh cleaning solutions. It is very important that low pressure be used in pressure cleaning. If filtered water under low pressure. Mild detergent may be used, but do not use chlorine or Only filtered water should be used to clean and rinse powder coated products whenever Unfiltered water often causes staining on outdoor products due to sulfur, iron oxide, chlorine, The most efficient method of cleaning powder coated surfaces is with a pressure washer using

#### **Avoid Abrasives**

you would treat your car paint. Avoid harsh, abrasive cleaners such as steel wool and scourers. Treat the powder coating as

#### **Avoid Solvents**

surfaces. After removal of the surface contaminant, the solvent should be dried from the film, water is high in mineral salts, finish powder coated metal cleaning with deionized water and/or metal that has been exposed to cleaner with copious amounts of fresh clean water. If the local caustic cleaners (especially kitchen and bathroom detergents) and paint thinners. Always flush chemicals for cleaning or any contact with powder coatings are gasoline, kerosene, xylene residues. Under no circumstances should strong solvents be used. Examples of inappropriate detergent and then rinsed with clean water to ensure complete removal of any solvent and the area that has been wiped with solvent should be washed with a solution of mild liquid small and unobtrusive area should be tested prior to attempting to use solvents on significant absolutely necessary to remove materials from the surface, such as adhesives, the weakest a chamois. possible solvent should be used (e.g. methylated spirits, white spirits or isopropyl alcohol). A Any use of a solvent-based cleaner will void any warranty that is issued. Where a solvent is

#### Damage Repair

will be possible to apply a suitable chromate pretreatment on site, apply a suitable primer and the maximum corrosion resistance, it is necessary to replace the pretreatment. In some cases it exposed, it is certain that the underlying chromate film has been damaged. In order to achieve Where mechanical damage to the powder coating has occurred such that the substrate is

repaint the damaged area in

aluminum is essential to the repair process. accordance with the recommendations above. Where on-site application of a chromate recommended method of damage repair. pretreatment is not possible, the application of a high performance etch primer to the Application of a suitable touch-up paint is the only

#### CONTACTS

Public Artists
Russell Rock and Jeanine Centuori- UrbanRock Design



Engineer TBD

Foundation Contractor TBD

Metal Fabricator

Carlos Fuentes Made in America



Graphics Fabricator Fossil Industries Inc.



## COMMUNITY ENGAGEMENT STRATEGY

then inform the selections of Icon designs, Streetscape Artwork, and Plaza Installations. artwork. A sense of ownership and common ground would be achieved with this animals would then be chosen in a similar manner. These foundational ideas would community in qualitative terms with the use of adjectives printed on cards. Local process. This process is meant to allow for accessible and open dialog and discussion about the The strategy for these sessions are to prompt participants to first think about the

## 1 Emeryville Environment

may also fill in the blank card with an adjective." "choose 3 of these qualities that best represent the environment of Emeryville. You Cards would be prepared and distributed to participants. They would be prompted to



## 2 Emeryville Community

adjective." represent the community spirit of Emeryville. You may also fill in the blank card with an Next, participants would be prompted to "choose 3 of these qualities that best



## 3 Emeryville Wildlife

land, and sea that best represent Emeryville." Next, participants would be prompted to "choose 3 local animals that inhabit the sky,



### 4 Icon Designs

These images of Icon Designs would be printed at full-scale.

Emeryville?" of the local environment and community spirit, which of these best represents Participants would be prompted with the following: "referring to your chosen qualities



## 5 Streetscape Artwork

of the local environment and community spirit, which of these best represents Participants would be prompted with the following: "referring to your chosen qualities Emeryville?" These images of Streetscape Artwork would be printed at full-scale.



### 6 Plaza Artwork

view cone would illustrate the experience. Participants would be asked to identify four iconic local animals from the Sky, Trees, Ground, and Sea that best represent Models of these Plaza Artworks would serve to clearly illustrate the form, and a large Emeryville.



City of Emeryville 40th Streetscape Public Art Project

PHASE TWO Final Conceptual Design Proposal 8/22/24

Presented by Scott Donahue, John Northmore Roberts, Lesley Gasparetti

## Overall Concept & Identity of Place

Artwork and graphics inspired by the defining characteristics of the City of Emeryville communicate the unique identity of this place while drawing visitors into and through the 40th Street corridor.

create a family of images, enlivening the multi-block experience and adding dramatic punctuation at key pedestrian locations. The artworks, combined with new city graphics abstracted from the artwork, capture the city's richness and enhance the street Up to twelve sculptures affixed to street light poles plus four larger free-standing pieces within the new neighborhood plazas design.

The free-standing pieces in each of the four plazas are individual artworks that, together, reflect four defining characteristics of Emeryville—Waterfront Wildlands (nature), Emeryville Connects (bikes & connectivity), All Are Welcome (diversity), Art & Innovation (creativity). Each of the plaza sculptures captures one of these themes, lit from within. The 12 simpler pieces affixed Emeryville's natural setting. to street-light posts on both sides of the street (at least one per block) include details from the major themes with a focus on

in the plazas are slightly removed from the street's travel lanes, highlighting the quieter more nuanced neighborhood experience. The rhythmic experience of the artworks while travelling on a bus, in a car, riding a bike, or walking provides a distinctive linear identity to the corridor day or night when seen up close or from afar linking the bayfront wildlands with the urban core. The wards are the second works

rippling through the concrete paving and curving inland from the bay simulate a series of small waves superimposed on the urban grid leading toward the vegetated upland at the bioretention basin. Each plaza sculpture is located within this high embedded in the concrete relate the characteristic theme of each plaza. ground, reminiscent of the beloved mudflat sculptures that once graced the Emeryville shoreline. Stainless steel phrases The plazas themselves are reconceived as eddy-like spaces often found at the margins of wetlands. Stained concrete bands

Wayfinding and identity graphic options, reflecting the city's defining characteristics consistent with the artworks, will be refined and selected through a creative public outreach process.

### MATERIALS AND SIZES

PLAZA SCULPTURES (4 with forms 3D scanned to preserve a reproducible record)

- Mounted on 5" diam x 1/4" thick steel pipe (same as light poles) min. 10' above ground extending to 16' height set in concrete footings within bio-retention planters.
- Made in two parts, each 3' high x 4' wide x 4' deep weighing up to 250 lbs, or 500 lbs total.
- Material is 3/8" to 1/2" thick cast Forton gypsum with fiberglass and integral pigment with additional fiberglass rebar and
- surfaces. mounting hardware. Additional color using water glass by Keim mineral paints. Sacrificial anti-graffiti coating on exposed
- . Integral micro lighting powered by solar panel embedded in top

LIGHT POLE SCULPTURES (up to 12 with forms 3D scanned to preserve a reproducible record)

- Mounted on street light poles min. 10' above ground extending to 12' height with stainless steel sign brackets. Designed to meet light pole structural loads and maintenance rqts.
- Made in two parts +/- 1'-6" wide x 1'-6" high x 2' deep weighing up to 30 lbs each, or 60 lbs total
- Four separate sculptures will be cast from molds three times each for a total of 12 pieces
- . Material, additional color, and anti-graffiti coating same as Plaza Sculptures

PAVING INSERTS and STAINED CONCRETE BANDS (stainless steel embedded in concrete paving,

- Lettering ¼" thick laser-cut stainless steel 6" high x ½" wide affixed to flat bar by SS rods
- Located within plazas a minimum of 3' from known utility lines. Wave bands - Color-stained scored concrete bands, avg. 6" wide x +/- 10' length within existing poured concrete paving.

The sculpture pier locations will be shown on the artist site plans, reviewed and approved by the city, and coordinated with the city's engineering improvement plans. The proposed locations will be marked by the general contractor subject to the approval of the artist The 18" diameter piers will be drilled to the specified depth using standard drilling equipment followed by assembly and installation of the reinforcing and city inspection. Poured concrete will include installation of the j-bolts. Once the concrete is sufficiently cured, the poles will be delivered to the site and bolted to the concrete piers.	SCULPTURES The plaza sculptures will be located within the new bioretention basins at each plaza. Installation of the concrete piers, bolts, and ste poles for the sculpture will require close coordination of the scheduling and site access with the work of the general contractor overseeing the plaza construction. Installation of the sculptures on the poles will also require coordination but can be installed after th maior plaza construction is complete.	PLAZA	Installation Procedures	MAINTENANCE No maintenance is possible. However dust and dirt will settle on the sculptures enhancing some relief work but diminishing the color. Once a year hosing down with water of the sculptures will enhance the color. LED light bulbs do burn out and lithium ion batteries do wear out. The garden repurposed lighting may have to be replaced. Judging from my light fixture the endurance would be at least five years, probably more. The lightbulbs can be changed by accessing them through the hatch of the ellipsoid form. The solar panels can be replaced by accessing them through the upper side of the funnel form. Scans of each of the sculptures will be provided for the Cit use as an accurate depiction in case a replacement or repair is needed. In addition, molds of the light pole sculptures will be provided for casting replacements or additional pieces if needed in the future.	The pieces are configured and sized to extend +/- 1'-6" from the face of the poles so that they will not conflict with the routine maintenance tasks, such as changing light bulbs. They are smaller than the 3' x 3' signs that are allowed to be attached to the poles, with a smaller wind loading effect than the signs—a primary consideration for pole stability. Based upon our experience elsewhere, th combined weight of 60lbs max. (30 lbs max each component) should not affect the structural integrity of the poles. Structural certification will be completed as part of the final design.	Each of the two components of the sculptures will be attached to the poles with standard signage hardware, which is sufficient to withstand the wind and gravity forces. This hardware is all stainless steel supplied by Grangers and its brand name is Tapco. This attachment mechanism will allow for easy removal and re-installation if the pieces need to be removed in the future.	The public art sculptures proposed for this project rely on a cast material Forton gypsum and fiberglass. I have used this material for over 30 years. A project of mine in Palo Alto, entitled Headwaters (right) is constructed of this material and has endured for 27 years without any damage or needed repairs. The sculptures that are proposed for these 40th St. locations would all be at 10 feet or higher	LIGHT POLE SCULPTURES – Attachments (for detailed specifications, see appendix)	10 of these solar panels will be installed in the top of the funnel shape sculpture out of public view. Five spotlights will face upward illuminating the funnel-shape from below. The individually inset LED lights will be in the underside of the ellipsoid facing down to viewers in the Plaza. These inset lights will be appropriate to the content of each sculpture. In the All Are Welcome example shown, t little LED lights will illuminate the upside-down city, kind of like how we view San Francisco, and the spot lights will illuminate the underside of the birds above. In the Emeryville Wildlands sculpture, the diving penguins are illuminated from below with the eyes of t fish below lit by the LED lights. For the Emeryville Connects sculpture, the map is illuminated from below and the front and rear tail lights of bicycle riders are lit by LED. For the Art & Innovation sculpture, the DNA forms are lit from below and the gauges, dials, and other equipment behind the hands are lit from within by LED.	The lighting design for the Plaza sculptures uses standard garden lighting fixtures repurposed for the sculptures. The fixtures of this type that I have many years of experience with are Urpower. These lights have their easily serviced solar panel separate from the lighting fixture with wired connections between the two. The panels contain the battery for the nighttime power and are turned on and automatically with light levels. Hardware cloth wire mesh will protect these panels from bird nesting.	LIGHTING	The compression brackets are tightened inside the sculptures. During installation compression is applied by tightening the bolts on each bracket through the access hatch on the lower ellipsoid shape. The upper funnel shape forms are using the same compression brackets. The upper funnel shape has a two-part hatch cover that looks a little like a funnel-shaped itself and has a water drainage hat that goes down through the center of the pole and drains out the bottom.	The attachment hardware for the Plaza sculptures will be custom fabricated for this project. I have used this design pole attachment successfully on a much larger installation of public art. Rising Expectations consists of three components. Inside the sculpture are compression brackets which have welded steel supports for the shell of the sculpture.	ATTACHMENTS	PLAZA SCULPTURES – Attachments & Lighting (for detailed specifications see appendix)
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parts Subsequent installation of the sculptures on the poles will be scheduled when the plaza is clear and fully accessible to the artist, best before the final landscape installation. The artist will deliver and install the pieces using his own equipment. The lighting of the sculptures is integral to the sculptures and will not require connections to outside power sources. The Plaza sculptures will be installed using a rolling A-frame and chain hoists. Scaffolding will be used to make the connections of the compression brackets. The individual will be delivered using my truck and my labor to install.

### PAVEMENT INSERTS

access with the general contractor will be required. The concrete pour and finishing will be by the general contractor for the plaza. the artist. The pieces will be installed to be flush with the finish grade of the concrete paving. Coordination of the scheduling and site approved by the city and coordinated with the city's engineering improvement plans. The final location will be subject to the approval of part of the concrete paving reinforcement. The final location of the pieces as shown on the artist site plans will have been reviewed and The stainless-steel lettering inserts will be fabricated off-site and delivered for installation by the artist's sub-contractor as an integral

### STAINED CONCRETE "WAVE BANDS"

concrete will be poured for approval of the texture and subsequent staining. Approximately 30 days after the concrete pour, the general contractor will apply stain to the "wave bands" to match an approved sample. coordinated with the city engineering improvement plans. The bands will be scored into the concrete by the general contractor's concrete installation sub-contractor according to the plans and subject to the approval of the artist. The concrete bands will be textured by the concrete installer consistent with the etched concrete specified in the city improvement plans. A separate sample of the textured The stained and textured concrete wave bands will be shown on the artist site plans, reviewed and approved by the city and

### LIGHT POLE SCULPTURES

sidewalk at their lowest point. Installation of the sculptures will be coordinated with the city of Emeryville for a proper time. Traffic mitigation will be used. Scaffolding assembled for this purpose will be temporarily installed at each light pole sequentially. I will be using commercial liability insurance my own equipment and labor to do these installations. I will be using my truck for this installation and will provide evidence of The light pole sculptures will be mounted to twelve existing light poles using stainless steel mounting hardware 10 feet above the

OTAL	<ul> <li>OTHER</li> <li>Workshop Process</li> <li>2 Workshops, preparation, summary</li> <li>2 Presentations</li> <li>Web Development</li> <li>Survey review</li> <li>Facility rental</li> </ul>	CONTINGENCY (10%)	) PERMITS – allowance	) TRAFFIC CONTROLS – allowance	) INSURANCE (SD) – allowance	<ul> <li>Fabrication</li> <li>Fabrication</li> <li>Install (\$63/lf)</li> <li>Stained Concrete bands add (\$10/sf)</li> <li>Plaza &amp; Light Pole Sculptures (SD)</li> <li>\$ 2</li> </ul>	<ul> <li>MATERIALS, FABRICATION, INSTALLATION</li> <li>Plaza Sculpture piers and poles install</li> <li>Stainless Text</li> </ul>	<ul> <li>SUBCONSULTANTS</li> <li>Structural Eng</li> <li>Landscape Arch</li> <li>Graphic Design</li> </ul>	) ARTIST FEES & PROJECT MGMT (20%) • SD • JNR • LG \$	EAM DONAHUE MERYVILLE 40 <sup>TH</sup> STREET ART – BUDGET ugust 22, 2024
	\$ 22,500 2,500 3,000 \$ 1,500 \$ 500					47,500 5,000 3,000 00,000	28,000	8,000 10,000 10,000	30,000 30,000 10,000	
\$ 500,000	\$ 22,500	\$ 50,000	\$ 10,000	\$ 3,000	\$ 3,000		\$ 283,500	\$ 28,000	\$ 100,000	



August 22, 2024

John Northmore Roberts

EMERYVILLE ART INSTALLATION

oncrete piers with anchor bolts (4 @ \$4,870)

\$36,000.00

TOTAL BASE BUDGET

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Budget by:

Greg Wrenn



DELIVERY INFORMATION: Lightmart and its freight carriers do not unload products. Unloading is the sole responsibility of the recipient and/or customer and recipient and/or customer is required to provide all necessary equipment and/or manpower at the time of delivery. DELIVERY CLAIMS: Claims must be made within 7 days of delivery to avoid claim denial. Please make sure all items are received in good condition and that there is no concealed damage prior to signing for the delivery. Notation of damage must be made on the carrier's delivery document. RETURNS: New products with their packaging intact may be returned at customer's expense only if you notify us in writing within 14 days of receipt of product and you obtain a Return Authorization number. A minimum restocking fee of 25% will apply to all returns. All poles, brackets, and custom or built-to-order products are NON-RETURNABLE and NON-REFUNDABLE.

Tax Total (%)

Total

\$3,184,67

\$240.67

1 of 1

## **Stainless Steel Estimate for Paving Inserts**

"ALL ARE WELCOME" "EMERYVILLE CONNECTION" "WATERFRONT WILDLAND" "ARTS & INNOVATION"

- ٠ Welded to a stainless steel sub frame (as designed before)
- 6" Tall
- Material to be 1/4 Brushed finish Stainless Steel
- With a shop drawing explaining design intentions
- All portions laser cut

Materials: \$6000 Templates: \$1000 Fabrication: \$21,000 Laser cutting: \$5000 (4) Shop drawings: \$3500

Budget: \$47,500 +/-Roughly \$11,000 per unit

# Community Outreach Design Process for Iconographic Wayfinding Image

#### GOAL

To reach community consensus on an iconographic wayfinding image for the City of Emeryville

#### OBJECTIVES

- . To align the preferred wayfinding image to the approved public art themes of the 40th Streetscape Public Art Project.
- Ъ develop a preferred wayfinding image that reflects creative community input refined through a creative outreach process.
   Design Team to conduct two public community workshops under the sponsorship of the project's Working Subcommittee appointed by the City Council, facilitated and advertised by staff, to review options and select a preferred approach—Wkshp #1 Present findings to date and receive input on options, Wkshp #2 Review refined options and find consensus
- 0 on Preferred Option. Concurrently conduct on-line survey of preferences for options reviewed at each workshop. Present the art and urban design concepts approved for the 40th Streetscape Public Art Project as the basis for
- 0 consideration of wayfinding options. Streetscape Art Concepts as a prompt for discussion. Review at least three initial options for wayfinding images developed by the team to be complementary to the approved 40th
- 0 Receive input on the initial options and discuss potential additional options or ideas suggested by the community. Reach consensus on options to be refined.
- 0 Refine up to six options reflecting initial community input for review and discussion in a second workshop. Facilitate discussion to develop consensus on a Preferred Option
- Approval of the final iconographic wayfinding image by Public Art Committee, Transportation Committee, Bike and Pedestrian Advisory Committee, and City Council. 0 Develop final wayfinding images for approval of the Working Subcommittee that reflects consensus community input.

٠

Deliver final camera-ready electronic files of final approved design to the City of Emeryville.

#### meets ASTM E-84, Class A (or 1) flame rating for building materials. castings at a fraction of the cost. You can duplicate the look of marble or ceramic by adding inexpensive fillers. The Forton<sup>™</sup> MG system Vibrant colors are possible by adding pigments. Metal powders (bronze, copper, brass, etc.) can be added to give the look of real metal resistant. Applications include making architectural elements, reproducing sculpture and special effects. pieces can be painted, sanded, machined and polished. Forton" MG is used to make lightweight pieces that are very strong and water-The Forton™ MG system is easy to use and can be cast solid, rotationally cast, layed up by hand with glass fiber or sprayed. Fully cured products. VF-812 drastically reduces water permeability, making it suitable for both interior and exterior applications (for exterior use, system is based on the VF-812 water based polymer emulsion (50% solids) and greatly enhances the physical properties of alpha gypsum product must be sealed – see "Finishing" section). Forton<sup>TM</sup> MG is a four component system which consists of an alpha gypsum blended with three specialty additives. The additive PRODUCT OVERVIEW Values were obtained using FGR 95 Alpha Gypsum from USG Corp. **Physical Properties of FMG Composite** using 11.7% glass fibers. All values measured after 14 day air cure. reduced with the addition of Aluminum Sulfate Accelerator. \*Depending on mass and environmental conditions. Time can be Tensile Ultimate, psi: 3,500-5,100 (24-35 MPa) Density: 95-100 lbs./ft3 Maximum Usable Temperature: 200°F (93°C) Water Absorption: 0.8% after 24 hour water soak Impact Resistance ASTM D256: 170 in.lb./in<sup>2</sup> Flexural Ultimate, psi: 3,500-9,400 (24-65 MPa) Color: Bright White Working Time: 20-30 minutes\* Freeze/Thaw Resistance: 300 cycles Water Vapor Diffusion Coeffecient: 250 mµ Coeffecient of Thermal Expansion: 11.1 x 10-6in/in/°F Compressive Strength, psi: 6,000-9,000 (41-62 MPa) Demold time: 60-90 minutes\* **Polymer Additive System for Enhancing Alpha Gypsums** FORTON **FMG Casting System** Window Screen Or Similar For Filtering Mixture NIOSH Approved Dust Mask Weighing Scale (Digital Gram or Triple Beam Balance) Mixing Containers Measuring Containers you begin. You will need: Required Materials - Assemble all components and accessories before of this material is in question. to determine suitability for your project is recommended if performance Because no two applications are quite the same, a small test application using a silicone rubber mold (Mold Max<sup>m</sup> Silicone), as no release agent is can be released from another Forton<sup>™</sup> MG surface using a minimum of three **Mold Preparation** - If casting or laying up into a urethane rubber mold, first apply a release agent such as Ease Release<sup>TM</sup> 2831. Newly mixed Forton<sup>TM</sup> MG VF-812 to freeze. will cause gypsum and resin to lose effectiveness. Do not allow the liquid should be stored in a dry environment at room temperature. Humid conditions warmer temperatures will reduce working times. Individual components soon as possible. Colder temperatures will slow the working/cure times, while required to facilitate demold. coats of Sonite<sup>TM</sup> Wax. If you want to paint your finished casting, we suggest (73°F/23°C). These products have a limited shelf life and should be used as Handling & Storage - Store and use material at room temperature PREPARATION ... **PROCESSING RECOMMENDATIONS** Mechanical / Power Mixer (Jiffy or Hanson Mixer) Forton<sup>™</sup> MG System Components (See Description Below) SMOOTHON

**System Components -** The Forton<sup>™</sup> MG System consists of four components (an alpha gypsum and three specialty additives).

Component 1 - Alpha Gypsum: You can not use just any gypsum/plaster product. You must use an Alpha Gypsum such as FGR 95 from

Component 2 - VF-812: White liquid. 50% solids polymer that crosslinks with Component 3 and gives Forton<sup>TM</sup> MG water resistant properties USG Corp., Densite HL from Georgia Pacific, Crystacal R from British Gypsum or equivalent.

Component 3 - MF-415 Resin: Fine white powder. Enhances physical properties of the overall mix.

linking of the VF-812 and the MF-415 Resin. Component 4 - Ammonium Chloride Hardener: Crystalline Powder - looks like sugar. Added as a pH adjustor to ensure the proper cross-

### **MEASURING & MIXING...**

Important: Use only fresh materials. Old materials (gypsum, polymer) will give inconsistent results

an accurate digital gram scale to weigh Parts A and B properly. Do not use an analog scale or attempt to measure components by volume To minimize dust inhalation, we recommend wearing a NIOSH approved dust mask while weighing and mixing components. You must use

Important: Components must be mixed in proper sequence. A power mixer should be used to mix all components.

- -` Shake or stir VF-812 well. Dispense required amount into mixing container.
- 2 Combine All Dry Ingredients: Combine Alpha Gypsum + MF-415 + Hardener by weight into a suitable size mixing container. Mix dry dry components before adding to VF-812. components thoroughly with mixing paddle, power mixer, etc. until well blended. If adding fillers such as bronze powder, blend with
- ω Sift dry ingredients into VF-812 liquid and mix all components with a power mixer. Continue mixing until all dry powder components are thoroughly dispersed (minimum 90 seconds).

design: Mix Design - Component quantities will vary depending on the size of the batch you are making. Below is a standard Forton<sup>TM</sup> MG mix

Alpha Gypsum
VF-812 Polymer
MF-415 Resin
Hardener

### Parts By Weight

Working times and demold times will vary depending on mass, environmental temperatures and use of accelerator.

layup a solution of 1 lb of FMG Accelerator (Aluminum Sulfate) into 10 lbs of water can easily be made. Accelerating Forton TMG - The set and demolding times of the FMG system can be reduced by the use of an accelerator. For hand

of accelerator for every 10 lbs of gypsum in the mix. The goal is to add just enough to accelerate the set time but not cause a snap set. Mix the Forton<sup>™</sup> MG components into a creamy slurry. Then add the accelerator while mixing. A good starting point is to add 1 tablespoon Note: Local conditions and mix design can affect the strength of an accelerator. Experimentation will be required.

to adding dry components to add citric acid in a quantity of 0.05% of the weight of the gypsum in the mix. The citric acid should be premixed into the VF-812 prior the longer working time and demold time necessary for these applications, citric acid can be added to the mix. A good starting point is (mass casting) or for "master batching" (a large amount is mixed and poured into many different molds for production casting). To achieve Retarding Forton<sup>TM</sup> MG - Some applications may call for a large quantity of Forton<sup>TM</sup> MG to be mixed and poured in a single mold

## **POURING & APPLICATION...**

After thoroughly mixing components, the mixture is ready to be poured into a mold. For best results:

- 1. Pour a small amount of the Forton<sup>™</sup> MG mix into the mold and brush or slush a face coat on all surfaces. This helps to break surface equivalent. This helps to eliminate any clumps or unmixed material that could affect the surface finish. tension and ultimately reduce air bubbles. Tip: Slowly pour the face coat material through a window screen, kitchen colander or
- Ν After a face coat is applied, the remaining mixture can be slowly poured into the mold

on conditions. There are additional steps you can take to help reduce entrapped air: Further Reducing Entrapped Air - Air bubbles are sometimes a concern with polymer modified gypsums and will vary depending

- 1. Vibration By placing the filled mold on a vibrating table, air will rise and dissipate from the mold surface
- 2 Pressure - Requires pressure vessel and compressor. After mixture is poured into mold, place mold in a pressure vessel and subject mixture to 60 PSI (4.2 kg/cm<sup>2</sup>) air pressure for one hour. NOTE: Molds must also have been cured under the same pressure. Otherwise

Pressure Casting is the only way to completely eliminate bubbles from your mix. Vacuuming material does not work. when the Forton<sup>™</sup> MG is pressure cast in the mold, air bubbles trapped in the rubber will compress and the casting will be distorted

of 5% glass fiber reinforcement is used. The flexural properties of Forton<sup>™</sup> MG are very responsive to the amount and type of glass fiber reinforcements used in the composites industry. This includes continuous strand surfacing mats up to bi-axial and tri-axial woven glass fiber fabrics. Therefore, Forton<sup>™</sup> MG can be used in a wide range of production/laminating processes. ASTM 1355 requires that a minimum Making Architectural Elements - Hand Lay-Up Technique - Forton<sup>™</sup> MG can be reinforced with all typical "E" glass fiber

reinforcement used, up to 15% of the composite weight.

enough to wet out the surface. Repeat as necessary until 36" (10 mm) thickness is attained. Hand Lay Up Using Fiberglass Matting - For best results, use ¾ oz. or 1 oz. Chopped Strand Mat or Continuous Strand Mat. Mix Forton<sup>™</sup> MG at the "standard" mix design and brush a face coat into a mold. Let set until the appearance starts to turn from shiny to dull, air. After a uniform coating is attained, apply another layer of matting and brush again. Apply a minimal amount of Forton<sup>™</sup> MG - just material and let material penetrate matting. Brush with a clean paint brush, applying light pressure over surface to minimize entrapped or until you can no longer see your fingerprint if touched. Mix another batch and brush a layer over initial face coat. Lay matting over fresh

fiber directly into the Forton<sup>™</sup> MG standard mix. Adding chopped fiber takes much less time than layering chopped matte. The chopped fiber will be added to the mix as a percentage of the total weight. Fiber can be added in concentrations of 5% to 12%. Hand Lay Up Technique Using Chopped Glass - Another technique for making strong, lightweight elements is to mix chopped

fibers added. Calculate the total weight of Forton<sup>™</sup> MG required for the backup mix. Based on this, calculate and dispense the amount of fiber needed (5%-12% of the total weight). Fibers should be added to a thoroughly mixed Forton<sup>™</sup> MG Slurry. Mix thoroughly with a How To Proceed - A face coat should first be applied to the mold surface. This initial coat should be the standard Forton<sup>TM</sup> MG mix design and contain no fiber. This ensures a fine surface finish with no exposed fibers. Next, a backup mix can be created that will have application may be required to attain 3/8" (10 mm) thickness. power mixer until fibers are uniformally dispersed. Do not overmix. Apply mixture with gloved hand or spatula over face coat. Another

## FINISHING & PERFORMANCE...

Sanding" is advisable to minimize dust particles and build up on sand paper. Post Finishing - After elements have fully cured, they can be sanded or sand blasted to achieve the desired surface texture. "Wet

or concrete / masonry sealer such as Euclid Chemical Baracade Silane 40 WB or Baracade Silane 100 C. Elements can also be painted with gypsums, elements made with Forton<sup>™</sup> MG are suitable for exterior use. Elements must, however, be sealed with a suitable siloxane sealer an outdoor acrylic paint. For Exterior Use, Apply A Sealer - Because the Forton<sup>TM</sup> MG system substantially reduces the water absorption rate of alpha

bronze powder is recommended and should be pre-mixed with dry Forton™ MG components prior to adding to VF-812 can achieve the look of real bronze at a fraction of the cost. For making solid castings, the following proportions will work well. – 325 mesh Making "Cold Cast Bronze" Elements - Reproducing the look of bronze is a common application for Forton<sup>™</sup> MG because you

100	Alpha Gypsum
70	VF-812 Polymer
10	MF-415 Resin
0.48	Hardener
150	Bronze Powder

Parts By Weight

oxide pigments and SO-Strong<sup>™</sup> color tints work well with the Forton<sup>™</sup> MG system. or dark brown) to the mix will give the final casting added definition and dimension when working with bronze powder. Powdered iron Optional: Pigments can be added to the system to affect the finished look of the cold cast part. For example, adding a dark pigment (black

Metal powders (bronze, copper, brass, nickel silver, etc.) are available from Smooth-On or your Smooth-On distributor

be achieved using various cold patinas. Casting should be sealed with wax, lacquer or clear acrylic spray to prevent oxidation. Post Finishing Cold Cast Bronze Elements - To bring forth the metallic finish, buff with 0000 steel wool. Patina coloring can then

give a realistic porcelain finish. Wood grain finishes can be attained by adding powdered pecan shells or similar fillers. Metal powders and parts by weight to original mix formula. Quarry Tone<sup>™</sup> fillers from Smooth-On can be added to give a granite look. Adding malachite will the addition of various pigments and/or fillers. Liquid or dry pigments can be added during mixing. Other metal powders can be added may be necessary fillers are pre-mixed with dry components by weight. Amount of filler to be added depends on desired effect. Some experimentation to attain specific metal finishes (copper, pewter, silver). A marble finish can be attained by adding marble dust (calcium carbonate), 150 Adding Pigments And Fillers - Because Forton<sup>™</sup> MG blends easily with different materials, realistic effects can be achieved with

g" for test projects a
ng Weight
<sup>3</sup> ail 7 lb (3.2 kg)
e 1 lb (.5 kg)
e .05 lb (22 g)
oox 10 lbs (4.5kg)
ve 1 lb (.5 kg)
ng Weight
Dail 40 lb (18.1 kg)
lopes 8 lb (3.6 kg)
elopes .4 lb (176 g)
y.
59 oz (45 g) 1 lb (454 g) 1



### TECHNICAL DATA SHEET EXTERIOR MINERAL BONDING PRIMER

### PRODUCT DESCRIPTION

Mineral Bonding Primer is a sol-silicate primer designed to prepare exterior previously painted surfaces, glossy and tough to paint surfaces for subsequent painting with mineral paints and limewash. It provides tenacious adhesion and is ideal when multiple types of masonry are present, providing a uniform mineral surface. This providing a uniform mineral surface. This primer has a sanded texture and can make uneven and aged masonry appear more uniform. Fills small cracks up to 1/32".

### FIELD OF APPLICATION

Mineral Bonding Primer is used to bond to exterior previously painted and difficult to paint surfaces. It provides added adhesion when renovating or coating sound acrylic and silicone resin-based coatings, acrylic stucco, terracotta, brick, masonry and cement fiber siding. Do not use on floors or previous elastomeric coatings or oil base painted surfaces.

Mineral Bonding Primer is not a finish coat and can only be used as a base coat/primer; it must be over coated with 2 coats of a KEIM Mineral Masonry Paint or Limewash.

### PRODUCT PROPERTIES

- Moisture vapor permeable, will never peel due to hydrostatic pressure
- Keim Mineral Coatings of America, Inc



- Penetrates masonry and existing coatings and fuses—won't peel or lose adhesion
- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)
- Provides a uniform mineral surface for subsequent mineral and limewash topcoats and improves overall appearance
- Apply to a variety of mineral surfaces
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Naturally mold, algae and fungus resistant—no pesticides used
- Subtle, sand texture

#### <u>Technical data</u>

Density	1.6 g/cm <sup>3</sup>
VOC (ASTM D6886)	< 1 g/liter
Organic Content	< 5%
Cured pH value	Approximately 11
Vapor Diffusion	sd (H2O) = <0.01 m
Water Absorption	W=0.20 kg/m2 h 0.5
Coefficient	(acc. to DIN EN
	1504)
Vapor Permeability	77 Perms
(ASTM E96)	
Flashpoint	Non-Flammable
Mildew Resistance	Passes—No fungal
ASTM D3273/D3274	growth

	sf/gallon
er applied at 275—325	Mineral Bonding Prime
ed on 1 coat of	All test results perform
Flat	ISO 2813
0.5 Mineral Matte	Gloss at 85°

#### П nvironmental Compliance

EPA IFED	YES
LEED	YES
CARB	YES
SCAQMD	YES
Greenguard Gold	YES
Cradle to Cradle	YES

#### Colors:

White Matte Flat

### SPECIFICATIONS/SYSTEMS

Masonry Paint and Limewash. Use as a primer system for Keim Mineral

### SURFACE PREPARATION

clean and free of dust, grease, oils, salts, moss, algae and other substances that needed before painting. removed. Repair damaged areas as and loose latex or acrylic layers must be Old, oil base paints, loose substrate layers would prevent penetration and bonding. The substrate must be sound, solid, dry

#### APPLICATION

brush, roller or airless spray. Mineral Bonding Primer may be applied by

- Roller Use a ½" to ¾" nap synthetic Brush - Use a nylon/polyester brush
- roller cover
- Airless Spray
- 0 Tip: .035 in Pressure: 3000 psi, minimum
- 0 0 Remove filters from gun and
- siphon tube only pump, use 30 mesh filter on

### Keim Mineral Coatings of America, Inc



#### Prime coat

dry 12 hours or overnight before recoating. Ready to use, apply as supplied. Allow it to

### Application conditions

sunlight, wind, and rain during and after application for a minimum of 12 hours. Protect coated surfaces from direct direct sunlight or on sun-heated substrates. and rising and below 95°F. Do not apply it in Ambient and substrate temperature: 40°F

#### Drying times

coverage dependent. Drying times are temperature, humidity and

Touch: 46 hour 24 hours
Recoat: 2448 hours 12 hours

#### Coverage

actual coverage on your s	consumption. Apply test $\varepsilon$	equipment used will all IMP	application conditions and	experience. Surface textu	Stated values are based of	Portland Stucco	CMU Block (split faced)	CMU Block (smooth)	Cement fiber Siding	Brick and Masonry	UBSTRATE	
surface.	area to determine	PACT	d type of	ıre, porosity,	on our	125—176 SF/GAL	50—75 SF/GAL	100150 SF/GAL	250-300 SF/GAL	200-250 SF/GAL	COVERAGE*	

#### Cleaning

in water during work breaks. solvent to prevent rusting of the equipment. equipment with a compliant cleanup water. After cleaning, flush spray immediately after use with soap and warm Tools should be kept in the paint material or Clean spills, spatters, hands, and tools

### Do not mix with water or other products <u>Mixing with other products</u>



# TECHNICAL DATA SHEET - CONTACT PLUS® SOL-SILICATE SANDED BONDING PRIMER

#### PACKAGING

Gallon and 4 Gallon

#### STORAGE

Approx. 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

#### DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations. Any residues must be emptied out of containers before recycling.

HAZARDOUS SUBSTANCE CLASS

n/a

TRANSPORT HAZARD CLASS

### SAFETY INSTRUCTIONS

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.

Keep out of reach of children.

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with.

Keim Mineral Coatings of America, Inc



We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.





Stand 01/17 USA



## TECHNICAL DATA SHEET **KEIM FIXATIVE + CONSOLIDANT**

### 1. PRODUCT DESCRIPTION

existing colors natural in appearance without altering which leaves the masonry surface completely and develops a natural mineral matte finish potassium silicate. It dries completely clear consolidation agent made from pure, liquid KEIM Fixative is a clear binder, thinner and

#### 2 FIELD OF APPLICATION

surfaces that are highly porous resulting in a more uniform topcoat appearance. Use KEIM untreated stone. moisture to a slower rate, then that of an but it will limit the absorption of ambient not a sealer as the stone remains breathable level. It fills voids and consolidates them. It is bonding the molecular structure on a cellular weakened and decayed masonry by repenetrating action strengthens and restores damaged masonry, brick and stone. Fixative as a mild consolidant for friable and masonry to eliminate future dusting. Use KEIM masonry dust and elements and consolidates masonry surfaces. Fixative "ties down" loose exterior brick, stone, stucco, concrete or any Fixative as an anti-dusting finish on interior or also helps to minimize variable porosity across coverage of subsequent mineral topcoats. It surfaces to reduce absorbency and extend permeable primer on very porous masonry Granital. Also use KEIM Fixative as a vapor Paints. systems, KEIM Purkristalat and KEIM Décor pure silicate-based, two-component paint Use KEIM Fixative as a binder and dilution for It may be used as a dilution for KEIM The

Recommended Uses:

- Interior and exterior
- Above grade
- Aged, decayed and friable masonry
- and brick
- Cast and precast concrete
- Natural stone
- Stucco surfaces

ω PRODUCT PROPERTIES

permanently with the substrate, is highly KEIM Fixative penetrates and bonds

> Fixativ contains no organic additives. Forms covalent chemical bonds, similar to to weathering and is incombustible. KEIM moisture vapor permeable, extremely resistant

those in original substrate—no synthetic polymers

- Extremely weather resistant
- crust Non-film forming, will not develop a hard
- Extremely moisture vapor permeable High binding power and fixing action
- Non-flammable
- UV resistant
- Hinders fungal and mold growth
- Resistant to acid rain and pollution
- Low viscosity allows deep penetration
- environmental impact Environmentally friendly with low

Technical data

< 1 g/liter	VOC
Fully miscible	Solubility in water
93+ perms	Vapor Permeability ASTM E 96
11.3	pH value
100%	Active Content
Class II:= 10 mm	Penetration Depth
approx. 1.17 g/cm <sup>3</sup>	Specific weight

Color: Clear (tea colored)

Environmental Compliance

FPA	
YES	

EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES

#### 4. SPECIFICATIONS/SYSTEMS

be thoroughly soaked and saturated with For proper performance, porous surface must Fixative. Depending on surface porosity, level

applications may be required of decay, etc. multiple and successive

#### υ SURFACE PREPARATION

sound, dry, clean and free from dust and algae must be completely removed release agents, curing compounds, moss and grease. Loose areas, dirt, oily substances, The mineral substrate must be absorbent,

#### 6 **APPLICATION**

or as a consolidant: Pretreat highly absorbent or sanding surfaces

is extremely porous, sanding or decayed Multiple coats may be required if the surface surface with brush, roller or airless spray. 1:2 or 1:3. Apply diluted Fixative by flooding Dilute Fixative with clean water in ratio of 1:1,

Soak 5 kg of color powder in 4 liters of KEIM Fixativ <u>To mix with Purkristalat or Décor Paints:</u>

### Anti-dusting applications:

porous, sanding or decayed. coats may be required if surface is extremely with brush, roller or airless spray. Multiple 1:3. Apply diluted fixative by flooding surface Dilute Fixative with clean water in a ratio of

Refer to relevant technical data sheet To dilute Purkristalat, Décor Paints, or Granital:

### Application conditions

12 hours during and after application for a minimum of surfaces from direct sunlight, wind and rain and exposure to strong wind. Protect coated treated with Fixative. Avoid direct sunlight area). Nonabsorbent surfaces cannot be absorbency of the substrate (apply onto trial to be applied by flooding depends on the have to be cleaned beforehand. The quantity must be clean, dry and absorbent and may heated substrates. Equipment and tools must rising. Do not apply in direct sunlight or on sun-Ambient and substrate temperature: 40°F and be clean. The surface of the building material

#### Drying times

coverage dependent Drying times are temperature, humidity and

Reapply or topcoat: 10--24 hours Touch: 4--6 hour 40-50°F 2--4 hours 10 hours @ 50°F +

immediately after use with water. Cleaning Clean spills, spatters, hands, and tools

#### Coverage'

SUBSTRATE Cast or Pre-Cast Concrete Fiber Cement Siding Portland Stucco	COVERAGE* 250—300 SF/GAL 250—300 SF/GAL 125—175 SF/GAL
Portland Stucco	125—175 SF/GAL
CMU Block (smooth) and brick	75—100 SF/GAL
CMU Block (split faced or fluted)	25—50 SF/GAL
Gunite/Shotcrete	75—125 SF/GAL
Brick/Natural Stone Masonry	200—250 SF/GAL
*Stated values are based on smooth surfaces. Surface te application conditions and t	our experience on (ture, porosity, /pe of equipment

used will all vary consumption. Only a test application, using desired mixing ratio and under of the system components accurately. production conditions will fore-cast consumption

#### 7. PACKAGING

4-liter (1.05 gal) and 24 liter (6.34 gal) Steel Pail

#### 00 STORAGE

heat and direct sunlight. under cool, frost-free conditions. Protect from Approx. 12 months in tightly closed container

#### 9. DISPOSAL

waste regulations. accordance with local, state and federal Dispose of completely emptied containers in

### HAZARDOUS SUBSTANCE CLASS

Not Applicable

#### LIMITATIONS

painted surfaces. Not for use below grade Do not apply to polished stone or previously

### **10. SAFETY INSTRUCTIONS**

### KEIM Fixative is alkaline.

Provide appropriate protection for surfaces which are not to be treated (e.g. glass, sidewalks, pavers, landscaping, etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.

Keep out of reach of children

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for the latest in product technical information.



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### **TECHNICAL DATA SHEET**

## **PSS 20**<sup>®</sup> ECO GRAFFITI PROTECTION SYSTEM

### **1. PRODUCT DESCRIPTION**

PSS 20 is a breathable, completely reversible, and indiscernible system for protection against graffiti, tape and adhesive, gum, heel marks and airborne soiling for masonry, concrete and stone and mineral painted surfaces. Use on interior or exterior facades, walls, planters, etc.

PSS 20 is made of vegetable polysaccharides and water with a high viscosity and is completely biodegradable and safe to use. PSS 20 is a natural sustainable product that is harmless to man, animal life and the environment. PSS 20 is sprayed on to the wall in at least one or more coats with an Airless sprayer, where on drying it forms a gossamer-thin protective film, normally invisible to the eye and creates a fully breathable type of coating. PSS 20 should be applied by professionals and skilled tradesmen.

### 2. FIELD OF APPLICATION

PSS 20 can be applied to all washable substrates. In the case of water-repellent substrates (e.g., those treated with hydrophobic agents), the surface tension must first be reduced with a pre-treatment or primer. PSS 20 should only be used on vertical surfaces. PSS 20 is especially suitable for all kinds of natural and artificial stone facades, clinker, concrete, brick, mineral coatings, metal, and aluminum facades and is ideal for protecting public art.

### 3. PRODUCT PROPERTIES

PSS 20 is a "sacrificial" finish that does not seal the surface. It has no VOC or harmful ingredients. PSS 20 protective film is much more effective than permanent graffiti sealers by forming an invisible layer that naturally "breathes", allowing moisture vapor to escape without compromising the graffiti protection. In historic and preservation applications, PSS 20 can be easily reversed as it does not form a permanent bond with the surface. Soiled or tagged PSS 20 is easily removed from the surface with hot water, carrying with it all the dirt, spray paint, algae, dust, oil stains, etc. A replacement layer of PSS 20 is then reapplied to the surface, to continue to provide a protective barrier.

Non-yellowing

- Completely reversible—does not permanently bond to surface
- Almost indiscernible upon application does not dramatically alter the appearance of the surface
- Ideal for protecting delicate and historic surfaces
- Does not alter vapor permeability of surface Protects murals and public art
- Very U.V. and weather resistant
- > 95% biodegradable
- No VOC's or solvents, made from plant materials
- Chemically nonreactive
- Easy removal of soiled finish with warm water washing
- No toxic gases produced on decomposition by heat

Technical data	
Specific Weight	approx. 1.1 g/cm <sup>3</sup>
pH Value @ 20°C	approx. 6.5 (neutral)
Boiling point	100° C
Dry Film Thickness	1—1.5 mils per coat (minimum 2 coats required)
Water vapor permeability: according to DIN 52615:	Sd-value 0.012 m
Water Vapor Permeability ASTM E 96	80 perms
Carbonization: (LPM Construction materials lab Test No. A-13'041-1 of 18.03.93)	Good retardant effect
Viscosity	6000-7200 cpa
Flashpoint	Non-Flammable
VOC	0 g/liter
All test results performed on 2 200–250 SF/GAL and 14-day cu	coats PSS20 applied at re @ 77°F & 50% RH

### Color and Appearance

Clear, slightly cloudy gel—dries clear

### Environmental Compliance

SCAQMD	CARB	LEED	EPA	
YES	YES	YES	YES	

### 4. SURFACE PREPARATION

The substrate must be sound, clean, and free of oil, dust, grease, and silicone. <u>For absorbent substrates:</u> Thoroughly pre-wet substrate with clean water and allow excess water to run off. Surface should be saturated but not show signs of surface water (puddles

or pools). For non-absorbent substrates:

Substrate must be clean and dry at the time of application.

#### 5. APPLICATION

PSS 20 is applied to the surface in two or three coats using airless spray equipment at a pressure of 1450 -2900 psi. When spraying, both vertical and horizontal overlapping pattern should be used, which together will correspond to a normal coat of PSS 20. Do not apply in hot conditions. Application in temperatures above 90°F may lead to rapid evaporation of the water in the finish leading to adhesion problems. Note: PSS 20 is very slippery in its liquid state.

#### <u>Drying times</u>

Drying times are temperature, humidity, and coverage dependent.

	@ 40-50°F	<u>@ 50°F +</u>
Touch:	46 hour	24 hours
Recoat:	2448 hours	24 hours

#### Coverage\*

SUBSTRATE	COVERAGE*
Masonry or Brick	100—200 SF/GAL
Natural Stone Masonry	100—250 SF/GAL
Cast or Pre-Cast Concrete	150—250 SF/GAL
Portland Stucco	75—125 SF/GAL
Mineral Paint Finish or Mural	150—250 SF/GAL

Metal Surfaces	200—250 SF/GAL
*Stated values are based on our e	perience on smooth
surfaces and are for one coat. Mu	tiple coats will require
more material. Surface texture, po	rosity, application
conditions and type of equipment	used will all vary
consumption. Only a test application	on under production
conditions will forecast consumpti	on accurately.

#### Cleaning

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment.

### 6. GRAFFITI REMOVAL

come into contact with the actual surface and there is 20. 20 should be reinstalled immediately. surface is cleaned and dried, a replacement coat of PSS no "ghosting" or etching of the surface. Once the and disposed of in the solid state. The graffiti does not graffiti is no longer bonded, it can be easily collected "slough" off. Peel off together with the graffiti. As the protective film is saturated, it will swell and begin to less than 250 psi is recommended. When the PSS 20 damaging the surface. On soft surfaces, a pressure of C. Use the least amount of pressure possible, to avoid Saturate the surface to soften the outer layer of PSS pressure washer fitted with an adjustable fan nozzle chemicals. Remove soiled PSS 20 with a hot water removed with hot water, without the need for Graffiti on the PSS 20 protective film can be easily The water temperature should be between 60-70°

Further details on application and graffiti removal are available from Keim.

#### 7. PACKAGING

25-liter plastic jerry can

#### 8. STORAGE

Approximately 2 years in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

#### 9. DISPOSAL

Dispose of completely emptied containers in accordance with local, state, and federal waste regulations.

### HAZARDOUS SUBSTANCE CLASS

## **TECHNICAL DATA SHEET PSS 20 Eco Graffiti Protection System**

### **10. LIMITATIONS AND CAUTIONS**

PSS 20 should not be used on floors or other horizontal surfaces. Do not apply below 38°F or above 90°F. When removing PSS 20 be careful as it is slippery once removed with hot water.

### **11. SAFETY INSTRUCTIONS**

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

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Sheet are based upon tests conducted by or on behalf of KEIM Mineral Coatings. Such information and recommendations set forth herein are subject to change and pertain to the product offered at the time of publication. Consult

for the latest in product technical information.
#### meets ASTM E-84, Class A (or 1) flame rating for building materials. castings at a fraction of the cost. You can duplicate the look of marble or ceramic by adding inexpensive fillers. The Forton<sup>™</sup> MG system Vibrant colors are possible by adding pigments. Metal powders (bronze, copper, brass, etc.) can be added to give the look of real metal resistant. Applications include making architectural elements, reproducing sculpture and special effects. pieces can be painted, sanded, machined and polished. Forton" MG is used to make lightweight pieces that are very strong and water-The Forton™ MG system is easy to use and can be cast solid, rotationally cast, layed up by hand with glass fiber or sprayed. Fully cured products. VF-812 drastically reduces water permeability, making it suitable for both interior and exterior applications (for exterior use, system is based on the VF-812 water based polymer emulsion (50% solids) and greatly enhances the physical properties of alpha gypsum product must be sealed – see "Finishing" section). Forton<sup>TM</sup> MG is a four component system which consists of an alpha gypsum blended with three specialty additives. The additive PRODUCT OVERVIEW Values were obtained using FGR 95 Alpha Gypsum from USG Corp. **Physical Properties of FMG Composite** using 11.7% glass fibers. All values measured after 14 day air cure. reduced with the addition of Aluminum Sulfate Accelerator. \*Depending on mass and environmental conditions. Time can be Tensile Ultimate, psi: 3,500-5,100 (24-35 MPa) Density: 95-100 lbs./ft3 Maximum Usable Temperature: 200°F (93°C) Water Absorption: 0.8% after 24 hour water soak Impact Resistance ASTM D256: 170 in.lb./in<sup>2</sup> Flexural Ultimate, psi: 3,500-9,400 (24-65 MPa) Color: Bright White Working Time: 20-30 minutes\* Freeze/Thaw Resistance: 300 cycles Water Vapor Diffusion Coeffecient: 250 mµ Coeffecient of Thermal Expansion: 11.1 x 10-6in/in/°F Compressive Strength, psi: 6,000-9,000 (41-62 MPa) Demold time: 60-90 minutes\* **Polymer Additive System for Enhancing Alpha Gypsums** FORTON **FMG Casting System** Window Screen Or Similar For Filtering Mixture NIOSH Approved Dust Mask Weighing Scale (Digital Gram or Triple Beam Balance) Mixing Containers Measuring Containers you begin. You will need: Required Materials - Assemble all components and accessories before of this material is in question. to determine suitability for your project is recommended if performance Because no two applications are quite the same, a small test application using a silicone rubber mold (Mold Max<sup>m</sup> Silicone), as no release agent is can be released from another Forton<sup>™</sup> MG surface using a minimum of three **Mold Preparation** - If casting or laying up into a urethane rubber mold, first apply a release agent such as Ease Release<sup>TM</sup> 2831. Newly mixed Forton<sup>TM</sup> MG VF-812 to freeze. will cause gypsum and resin to lose effectiveness. Do not allow the liquid should be stored in a dry environment at room temperature. Humid conditions warmer temperatures will reduce working times. Individual components soon as possible. Colder temperatures will slow the working/cure times, while required to facilitate demold. coats of Sonite<sup>TM</sup> Wax. If you want to paint your finished casting, we suggest (73°F/23°C). These products have a limited shelf life and should be used as Handling & Storage - Store and use material at room temperature PREPARATION ... **PROCESSING RECOMMENDATIONS** Mechanical / Power Mixer (Jiffy or Hanson Mixer) Forton<sup>™</sup> MG System Components (See Description Below) SMOOTHON

**System Components -** The Forton<sup>™</sup> MG System consists of four components (an alpha gypsum and three specialty additives).

Component 1 - Alpha Gypsum: You can not use just any gypsum/plaster product. You must use an Alpha Gypsum such as FGR 95 from

Component 2 - VF-812: White liquid. 50% solids polymer that crosslinks with Component 3 and gives Forton<sup>TM</sup> MG water resistant properties USG Corp., Densite HL from Georgia Pacific, Crystacal R from British Gypsum or equivalent.

Component 3 - MF-415 Resin: Fine white powder. Enhances physical properties of the overall mix.

linking of the VF-812 and the MF-415 Resin. Component 4 - Ammonium Chloride Hardener: Crystalline Powder - looks like sugar. Added as a pH adjustor to ensure the proper cross-

# **MEASURING & MIXING...**

Important: Use only fresh materials. Old materials (gypsum, polymer) will give inconsistent results

an accurate digital gram scale to weigh Parts A and B properly. Do not use an analog scale or attempt to measure components by volume To minimize dust inhalation, we recommend wearing a NIOSH approved dust mask while weighing and mixing components. You must use

Important: Components must be mixed in proper sequence. A power mixer should be used to mix all components.

- -` Shake or stir VF-812 well. Dispense required amount into mixing container.
- 2 Combine All Dry Ingredients: Combine Alpha Gypsum + MF-415 + Hardener by weight into a suitable size mixing container. Mix dry dry components before adding to VF-812. components thoroughly with mixing paddle, power mixer, etc. until well blended. If adding fillers such as bronze powder, blend with
- ω Sift dry ingredients into VF-812 liquid and mix all components with a power mixer. Continue mixing until all dry powder components are thoroughly dispersed (minimum 90 seconds).

design: Mix Design - Component quantities will vary depending on the size of the batch you are making. Below is a standard Forton<sup>TM</sup> MG mix

Alpha Gypsum
VF-812 Polymer
MF-415 Resin
Hardener

### Parts By Weight

Working times and demold times will vary depending on mass, environmental temperatures and use of accelerator.

layup a solution of 1 lb of FMG Accelerator (Aluminum Sulfate) into 10 lbs of water can easily be made. Accelerating Forton TMG - The set and demolding times of the FMG system can be reduced by the use of an accelerator. For hand

of accelerator for every 10 lbs of gypsum in the mix. The goal is to add just enough to accelerate the set time but not cause a snap set. Mix the Forton<sup>™</sup> MG components into a creamy slurry. Then add the accelerator while mixing. A good starting point is to add 1 tablespoon Note: Local conditions and mix design can affect the strength of an accelerator. Experimentation will be required.

to adding dry components to add citric acid in a quantity of 0.05% of the weight of the gypsum in the mix. The citric acid should be premixed into the VF-812 prior the longer working time and demold time necessary for these applications, citric acid can be added to the mix. A good starting point is (mass casting) or for "master batching" (a large amount is mixed and poured into many different molds for production casting). To achieve Retarding Forton<sup>TM</sup> MG - Some applications may call for a large quantity of Forton<sup>TM</sup> MG to be mixed and poured in a single mold

# **POURING & APPLICATION...**

After thoroughly mixing components, the mixture is ready to be poured into a mold. For best results:

- 1. Pour a small amount of the Forton<sup>™</sup> MG mix into the mold and brush or slush a face coat on all surfaces. This helps to break surface equivalent. This helps to eliminate any clumps or unmixed material that could affect the surface finish. tension and ultimately reduce air bubbles. Tip: Slowly pour the face coat material through a window screen, kitchen colander or
- Ν After a face coat is applied, the remaining mixture can be slowly poured into the mold

on conditions. There are additional steps you can take to help reduce entrapped air: Further Reducing Entrapped Air - Air bubbles are sometimes a concern with polymer modified gypsums and will vary depending

- 1. Vibration By placing the filled mold on a vibrating table, air will rise and dissipate from the mold surface
- 2 Pressure - Requires pressure vessel and compressor. After mixture is poured into mold, place mold in a pressure vessel and subject mixture to 60 PSI (4.2 kg/cm<sup>2</sup>) air pressure for one hour. NOTE: Molds must also have been cured under the same pressure. Otherwise

Pressure Casting is the only way to completely eliminate bubbles from your mix. Vacuuming material does not work. when the Forton<sup>™</sup> MG is pressure cast in the mold, air bubbles trapped in the rubber will compress and the casting will be distorted

of 5% glass fiber reinforcement is used. The flexural properties of Forton<sup>™</sup> MG are very responsive to the amount and type of glass fiber reinforcements used in the composites industry. This includes continuous strand surfacing mats up to bi-axial and tri-axial woven glass fiber fabrics. Therefore, Forton<sup>™</sup> MG can be used in a wide range of production/laminating processes. ASTM 1355 requires that a minimum Making Architectural Elements - Hand Lay-Up Technique - Forton<sup>™</sup> MG can be reinforced with all typical "E" glass fiber

reinforcement used, up to 15% of the composite weight.

enough to wet out the surface. Repeat as necessary until 36" (10 mm) thickness is attained. Hand Lay Up Using Fiberglass Matting - For best results, use ¾ oz. or 1 oz. Chopped Strand Mat or Continuous Strand Mat. Mix Forton<sup>™</sup> MG at the "standard" mix design and brush a face coat into a mold. Let set until the appearance starts to turn from shiny to dull, air. After a uniform coating is attained, apply another layer of matting and brush again. Apply a minimal amount of Forton<sup>™</sup> MG - just material and let material penetrate matting. Brush with a clean paint brush, applying light pressure over surface to minimize entrapped or until you can no longer see your fingerprint if touched. Mix another batch and brush a layer over initial face coat. Lay matting over fresh

fiber directly into the Forton<sup>™</sup> MG standard mix. Adding chopped fiber takes much less time than layering chopped matte. The chopped fiber will be added to the mix as a percentage of the total weight. Fiber can be added in concentrations of 5% to 12%. Hand Lay Up Technique Using Chopped Glass - Another technique for making strong, lightweight elements is to mix chopped

fibers added. Calculate the total weight of Forton<sup>™</sup> MG required for the backup mix. Based on this, calculate and dispense the amount of fiber needed (5%-12% of the total weight). Fibers should be added to a thoroughly mixed Forton<sup>™</sup> MG Slurry. Mix thoroughly with a How To Proceed - A face coat should first be applied to the mold surface. This initial coat should be the standard Forton<sup>TM</sup> MG mix design and contain no fiber. This ensures a fine surface finish with no exposed fibers. Next, a backup mix can be created that will have application may be required to attain 3/8" (10 mm) thickness. power mixer until fibers are uniformally dispersed. Do not overmix. Apply mixture with gloved hand or spatula over face coat. Another

# FINISHING & PERFORMANCE...

Sanding" is advisable to minimize dust particles and build up on sand paper. Post Finishing - After elements have fully cured, they can be sanded or sand blasted to achieve the desired surface texture. "Wet

or concrete / masonry sealer such as Euclid Chemical Baracade Silane 40 WB or Baracade Silane 100 C. Elements can also be painted with gypsums, elements made with Forton<sup>™</sup> MG are suitable for exterior use. Elements must, however, be sealed with a suitable siloxane sealer an outdoor acrylic paint. For Exterior Use, Apply A Sealer - Because the Forton<sup>TM</sup> MG system substantially reduces the water absorption rate of alpha

bronze powder is recommended and should be pre-mixed with dry Forton™ MG components prior to adding to VF-812 can achieve the look of real bronze at a fraction of the cost. For making solid castings, the following proportions will work well. – 325 mesh Making "Cold Cast Bronze" Elements - Reproducing the look of bronze is a common application for Forton<sup>™</sup> MG because you

100	Alpha Gypsum
70	VF-812 Polymer
10	MF-415 Resin
0.48	Hardener
150	Bronze Powder

Parts By Weight

oxide pigments and SO-Strong<sup>™</sup> color tints work well with the Forton<sup>™</sup> MG system. or dark brown) to the mix will give the final casting added definition and dimension when working with bronze powder. Powdered iron Optional: Pigments can be added to the system to affect the finished look of the cold cast part. For example, adding a dark pigment (black

Metal powders (bronze, copper, brass, nickel silver, etc.) are available from Smooth-On or your Smooth-On distributor

be achieved using various cold patinas. Casting should be sealed with wax, lacquer or clear acrylic spray to prevent oxidation. Post Finishing Cold Cast Bronze Elements - To bring forth the metallic finish, buff with 0000 steel wool. Patina coloring can then

give a realistic porcelain finish. Wood grain finishes can be attained by adding powdered pecan shells or similar fillers. Metal powders and parts by weight to original mix formula. Quarry Tone<sup>™</sup> fillers from Smooth-On can be added to give a granite look. Adding malachite will the addition of various pigments and/or fillers. Liquid or dry pigments can be added during mixing. Other metal powders can be added may be necessary fillers are pre-mixed with dry components by weight. Amount of filler to be added depends on desired effect. Some experimentation to attain specific metal finishes (copper, pewter, silver). A marble finish can be attained by adding marble dust (calcium carbonate), 150 Adding Pigments And Fillers - Because Forton<sup>™</sup> MG blends easily with different materials, realistic effects can be achieved with

g" for test projects a
ng Weight
<sup>3</sup> ail 7 lb (3.2 kg)
e 1 lb (.5 kg)
e .05 lb (22 g)
oox 10 lbs (4.5kg)
ve 1 lb (.5 kg)
ng Weight
Dail 40 lb (18.1 kg)
lopes 8 lb (3.6 kg)
elopes .4 lb (176 g)
y.
59 oz (45 g) 1 lb (454 g) 1

					Product Benefits	SOLUTION:	UNIFILO® SEI		
<ul> <li>Productivity</li> <li>U528 proc mechanic</li> <li>U529 proc</li> </ul>	Freedom of · U527 proc · U528X1 p strength r	More Con	U527	White	Customized · Unifilo* 50 customer	S TO	500 RIES	CORNING ®	
/ and high performance duct is easy to splice and al and di-electrical prope duct higher tensile strend duct higher tensile strend	design and white color fuct easily adapts to con roduct offers a great bala equirements.	formable	U528X1		<b>l for multiple needs</b> 10 Series mats are availa applications.	<ul> <li>Produced with pater Owens Corning.</li> <li>Made of continuous thermoset binder.</li> </ul>	Unifilo° 500 Series co of tailored reinforcen performance profiles		
enables excellent rities to molded pa	nplex die shapes a ance between soft		U528		ble with varying lev	nted Advantex* or filaments rando	ntinuous filame nent solutions fo by pultrusion pr		1
processability. It parts.	nd preserves part v ness, white color a	Stiffer	U529	Yellow	vels of binder to ma	orrosion resistant mly-oriented and	nt mat represeni or efficient manu rocess.		
rovides very good	vhite color. nd good tensile				atch up with specific	t E-CR glass by bonded together w	t a large choice facture of high		

Pulling 100 \$

### **Corrosion resistance**

.

longer service life in applications facing corrosion. Excellent corrosion resistance with Advantex\* Glass compared to standard E-glass: providing

#### Application

UNIFILO<sup>®</sup> 500 Series mats are compatible with unsaturated polyester, designed for the reinforcement of pultruded shapes including gratings, ladder rails, di-electrical laminates. be well suited for compression molding of frames, insulators. They are also proven to vinyl ester, acrylic and epoxy resins and





This information and data contained herein is offered solely as a guide in the selection of product. We believe this information to be reliable, but do not guarantee its applicability to the user's process or assume any responsibility or liability arising out of its use or performance. The user agrees to be responsible for thoroughly testing any application of the product to determine its suitability. Because of numerous factors affecting results, we make no warranty of any kind, express or implied, including those of merchantability and fitness for a particular purpose. Statements in this publication shall not be construed as representations or warranties or as inducements to infringe any patent or violate any law, safety code or insurance regulation. We reserve the right to modify this document without prior notice. Picture Courtesy of Collodin, CN (window angle).

Pubnumber: 10010965-D. Unifilo 500 series\_CFM\_product data sheet\_emea-ap\_10-2018\_Rev2. January 2019. English: THE PINK PANT HER\* & @ 1964-2019 Metro-Goldwyn-Mayer Studios Inc. All Rights Reserved. @ 2019 Owens Corning. All Rights Reserved.



### TECHNICAL DATA SHEET SOL-SILICATE ALL SURFACE MINERAL FINISH MONOCHROME COLORS

### PRODUCT DESCRIPTION

sound condition. nanoparticle technology that allows penetration of adhesion is enhanced with SOLDALIT's exposed to severe weather conditions. Tenacious surfaces. It is also ideal for all masonry surfaces acrylate copolymer to form both chemical and masonry surfaces and for bare masonry of all our very best exterior finish for previously painted existing organic, latex, or acrylic paints that are in and provides a mechanical anchor to most even the densest mineral or masonry substrates ferrous metals, granite, marble, pebble-dash mechanical bonds, even on the most difficult to inorganic mineral pigments and fillers and an types. SOLDALIT uses a proprietary formula SOLDALIT® Sol-silicate All Surface Mineral Finish is concrete and previous acrylic or latex painted ceramic glazed tile and terra cotta, glass, nongeneration mineral silicate paint is ideal for finishing paint substrates, without primer coats. This newcombining silica-sol and potassium silicate binders,

SOLDALIT meets all requirements of DIN 18.363, 2.4.1 "silicate emulsion paint".

### FIELD OF APPLICATION

SOLDALIT is applied typically as a 2 or 3 coat system and is recommended for new construction and renovation of sound acrylic and silicone resinbased paints, acrylic stucco, terracotta, bare masonry, all types of concrete, stone, and most other mineral substrates. It is ideal for restoration of historic structures and facades due to high vapor permeability coupled with water repellency. It may be applied over polymer modified cementitious patching compounds that are fully cured. Do not use over aged alkyd or oil-based paints, varnish, or lacquer. SOLDALIT is suitable for vertical facade installations and inclined surfaces. Do not use on floors.

### PRODUCT PROPERTIES

SOLDALIT protects masonry surfaces from the action of weather and prevents the penetration of atmospheric pollutants. It utilizes only lightfast inorganic mineral pigments and fillers, and colors will not fade, even in harsh U.V. environments. SOLDALIT is available in a smooth or sand texture base.

- Sol-Silicate binder system penetrates masonry and chemically bonds—won't peel or lose adhesion
- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)
- Lightfast mineral pigments—guaranteed not to fade or lose brilliance
- Apply to a variety of mineral surfaces
- Very water vapor permeable, microporous
- Completely resistant to pollution
- Provides extreme weather resistance and water repellency
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Beautiful, mineral matte finish
- Anti-static, inert finish—won't attract or trap dirt or dust for walls that stay cleaner
- Naturally mold, algae and fungus resistant—no pesticides used

# ENVIRONMENTAL COMPLIANCE

UL Greenguard Gold	YES
EPA	YES
LEED	YES
CARB	YES
SCAOMD	YES
Cradle to Cradle Health	Gold
Cradle to Cradle	Silver

### Technical data

f/gallon	All test results perform applied at 300—350 st
0.5 Mineral Matte Flat	Gloss at 85° ISO 2813
= 0	
Developed Index	
Index = 0; Smoke	ASTM E 84-08
Flame Spread	Characteristics
Class A	Surface Burning
Very Low	Chioride ion Permeability
change at 24 hours	ASTM D1308
Passes—no visible	Alkali Resistance
Passes—No fungal growth	Mildew Resistance ASTM D3273/D3274
No water leakage	ASTM E514
Passes	Wind Driven Rain
type	
deterioration of any	G154
2016 Hours Passes	Accelerated
Non-Flammable	Flashpoint
77 Perms	Vapor Permeability (ASTM E96)
	No. 26)
	technical bulletin
rating No color	pigment (Fb-Code
A1 Best in class	Lightfastness of color
(acc. to DIN EN 1504)	Coefficient
W=0.20 kg/m2 h 0.5	Water Absorption
sd (H2O) = <0.01 m	Vapor Diffusion
Approximately 11	Cured pH value
< 5%	Organic Content
< 1 g/liter	VOC (ASTM D6886)
1.6 g/cm <sup>3</sup>	Density



9003S Red Oxide







### 9006 Ultramarine Blue



#### 9004 Umbra

### 9011S Orange Oxide

9012S Chrome Green



9010S Dark Red Oxide

9008 Black Oxide

9005 Green Oxide

### BOX COLORED PAINT

To ensure consistency of color on large areas, all colored paint should be thoroughly mixed with a power drill and paddle for 1—3 minutes. Box paint together in larger containers and remix. Continue boxing and mixing for consistent color.

## SPECIFICATIONS/SYSTEMS

For proper waterproofing and weather resistant performance, 2 coats of SOLDALIT must be applied at recommended coverage rates. Surface should be fully coated, with no pinholes, runs or holidays.

<u>Concrete and cementitious patches (all types)</u> Pretreat: Keim Heavy Duty Cleaner (if needed)

Pretreat: Keim Heavy Duty Cleaner (if needed) 1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

CMU Block

1 coat Contact Plus Grob Block Filler (as desired) 1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

Masonry (brick and stone) and stucco

Pretreat extremely porous surfaces (if needed): Soldalit Dilution (mixed 1:3 with water)

1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

Previously Painted Mineral Surfaces

1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

Hard, Glossy Mineral Surfaces and Terracotta Scuff sand or abrade glossy surfaces (if needed)

1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

<u>Added Water Repellency (on any mineral surface)</u> Pretreat: Silan 100 Silane Water Repellency applied in multiple coats as needed to saturate surface. CRITICAL RECOAT: <u>Apply first coat of</u>

surface. CRITICAL RECOAT: <u>Apply first coat of</u> <u>Soldalit within 4—8 hours. DO NOT ALLOW SILAN 100</u> <u>TO DRY COMPLETELY.</u>

1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

1 coat SULDALII as supplied <u>Patched, Cracked and Irregular Mineral Surfaces</u> 1 coat of SOLDALIT Sand Texture Base (Grob)\*

diluted 10% with Soldalit Dilution

1 coat of SOLDALIT as supplied

\*Texture base is designed to provide a more uniform final appearance by adding a slight sand texture and can help fill-in cracks and voids up to 1/16" wide and deep. It is several shades lighter than the final color to allow for full coverage of finish. The maximum particle size is 0.5mm quartz granules.

### SURFACE PREPARATION

The substrate must be sound, solid, dry, clean, and free of dust, grease, oils, salts, moss, algae, and other substances that would prevent penetration and bonding. Old oil-based coatings, loose substrate layers and loose latex or acrylic layers must be removed. Repair damaged areas as needed before painting. Clean mineral surfaces as needed with KEIM Heavy Duty or Light Duty Cleaner or KEIM Bio Cleaner.

Soft, porous, or friable mineral surfaces, where substrate porosity is variable or aged existing mineral coats may be stabilized and consolidated by pretreatment with SOLDALIT Dilution. Mix 1 part Dilution with 3 parts fresh water and apply to porous surface to saturation. Allow surface to dry 12 hours before proceeding.

### **APPLICATION**

SOLDALIT may be applied by brush, roller, or airless spray.

- Brush Use a nylon/polyester brush
- Roller Use a ½" to ¾" nap synthetic roller
- Cover Airless Spray
- o Pressure: 3000 psi, minimum
- o Tip: .035 in o Remove fili
- Remove filters from gun and pump use 30 mesh filter on siphon tube only

#### First coat

SOLDALIT may be diluted up to 10% with Soldalit Dilution depending on the substrate porosity or to slow down dry in hot conditions. Allow it to dry 12 hours or overnight before recoating.

Keim Mineral Coatings of America, Inc



#### Topcoat

recoat window after the first coat has dried. a three-coat system intensive color shades it is recommended to apply NOTE: For extreme weather conditions or critical, Apply SOLDALIT undiluted, as supplied. There is no

### Application conditions

sunlight or on sun-heated substrates. Protect rising and below 95°F. Do not apply in direct coated surfaces from direct sunlight, wind, and rain hours during and after application for a minimum of 12 Ambient and substrate temperature: 40°F and

#### <u>Drying times</u>

coverage dependent. Drying times are temperature, humidity, and

	@ 40-50°F	@ 50°F +
Touch:	46 hour	24 hours
Recoat:	2448 hours	12 hours

#### 7 overage

SUBSTRATE	COVERAGE*
Cast or Pre-Cast	275-325
Concrete	SF/GAL
Fiber Cement Siding	275-325
	SF/GAL
Brick and Masonry	225-275
	SF/GAL
CMU Block (smooth)	100150 SF/GAL
CMU Block (split faced or	50—75 SF/GAL
fluted)	
Portland Stucco	150—200
	SF/GAL
*Stated values are based o	n our
experience with a smooth f	inish. Surface
texture, porosity, applicatio	n conditions and

consumption. consumption of the system accurately pro-duction conditions will forecast type of equipment used will all vary Only a test application under

#### <u>Clean Up</u>

should be kept in the paint material or in water during work breaks. Clean tools immediately after use with water. Tools

including concrete, masonry, glass, and metal. bond to mineral surfaces it is splashed onto This product may permanently etch and irreversibly and water. Clean spills, overspray, etc. immediately with soap

### Mixing with other products

the related system products, they must not be mixed with other products or additives, nor must To maintain the specific features of SOLDALIT and they be diluted with water.

#### Quart, Gallon and 4 Gallon PACKAGING

#### STORAGE

direct sunlight. Approx. 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and

#### DISPOSAL

regulations. Any residues must be emptied out of accordance with local, state, and federal waste containers before recycling. Dispose of completely emptied containers in

n/a HAZARDOUS SUBSTANCE CLASS

n/a TRANSPORT HAZARD CLASS

### SAFETY INSTRUCTIONS

### **TEMPORARY IRRITATION** CAUTION! SKIN OR EYE CONTACT MAY CAUSE

water; get medical help if needed. irritation, consult a physician. In case of contact, If breathing is difficult, give oxygen. In case of skin unconscious person. If inhaled, remove to fresh air immediately. Never give anything by mouth to an handling. Keep container closed when not in use application indoors or wear respiratory protection doors or use other fresh air supply during Avoid breathing spray mist. Open windows and Use proper protective equipment and clothing immediately flush eyes, and skin with plenty of FIRST AID: If swallowed, give two glasses of water. (NIOSH Approved). Wash hands and skin after Do not induce vomiting. Call for medical help

must be complied with. We retain the right to application. Standard building industry practices the suitability of our products for the intended duty of establishing for themselves, with due care. relationship. In particular, they do not release those products and do not establish a contractual to provide assistance in the selection of our whether given verbally or in writing, are intended experience. Our recommendations for application extensive development work and practical editions their application. This edition supersedes all earlier make modifications to improve the products or purchasing and applying our products from the The stated values and properties are the result of





**Chart showing the strength of fiberglass rebar.** 6 mm/quarter-inch fiberglass rebar I intend to use on the inside of my sculpture castings.

Property					Data fo	r produ	ucts on	sale			
Diameter(mm)	4	6	8	10	14	20	22	25	30	36	40
Cross section(mm2)	12	28	50	73	134	278	355	478	671	961	1190
Density(g/m3)	2.2	2.2	2.2	2.2	2.1	2.1	2.1	2.1	2.1	2.1	2.1
Ultimate tensilestrength(Mpa)	1100	1100	1100	980	764	716	695	675	637	575	509
Ultimate shear strength(Mpa)	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150	>150
Weight(g/m)	32	51	100	150	275	570	700	970	1350	2044	2380
Ultimate tensile(KN)	18	36	54	72	117	225	270	342	450	585	640
E-modulus(GPa)	>40	>40	>40	>40	>40	>40	>40	>40	>40	>40	>40

GRAINGER.	
Sign Mounting Brackets: 4 in to 12 in Round, Strap- On, Stainless Steel, Unfinished, Silver, 1 PR	Web Price 🕡 \$34.10 / pair Qty 1 Add to Cart
Item 1DYJ6 Mfr. Model 037-00011	Ship     Pickup
	Expected to arrive Wed. Aug 21. Ship to 94601 Change
Product Details Catalog Page 1853	Shipping Weight 0.7 lbs Ship Availability Terms
Brand TAPCO	Add to List
Mounts To Sign Post	
Compatible Sign Post 4 in to 12 in Round	Documents
Mounting Bracket Type Leg Strapping Bracket	
Hardware Type Mounting Bracket	BRKT Flared Users Guide
Mounting Bracket Attachment Method Strap-On	
Mounting Bracket Style No Series	
Mounting Bracket Adjustment Angle No Adjustment	
Number of Sides 1	
Material Stainless Steel	
Finish Unfinished	
Color Silver	

Includes (2) +4SS Flared Leg Brackets, (2) 5/16 x 5/8 in Hex Head Bolts, (2) 3/8 in Nylon Washers, (4) End Pieces, (2) 36 in Pre Cut Straps, (2) 5/16 x 1-3/4 in Hex Head Bolts, (2) 5/16 in Hex Nuts



FOR THE ONES WHO FIND SOLUTIONS"

GRAING

ACCESS TO EXPERTS WITH ANSWERS | 24/7 CUSTOMER SERVICE | FAST DELIVERY Supplies & Solutions for Every Industry®

<ul> <li>All sign bases are black</li> <li>Steel Sign Posts — High- corrosion. Not punched.</li> <li>Sign Post with Flexible in concrete or asphalt. Hole mounting hardware include prepunched.</li> <li>Post Posts steal in x 24". 1VC44 and 1 mounting hardware include prepunched.</li> <li>Post Posts with Flexible in the 18" x 24". 1VC44 and 1 mounting hardware include prepunched.</li> <li>Post Posts with Flexible in the sign Posts with Bases in x 19 in x 19 in the Bases in x 21 in x 21 in totax 21 in totax 21 in x 21 in totax 21 in totax 21 in totax 21 in x 21 in totax 21</li></ul>	All sign bases are black     Steel Sign Posts – High-tensile galvanize     corrosion. Not punched.     Sign Post with Fearile Spring Base     to concrete or asphalt. Holds signs up to 18     TAPE 24     To 18     The second sign Post with Bases – 489     The second sign Post with Bases – 48     Second sign Post with Bases – 48     Second sign Post with Bases – 48     The second sign Post with Bases – 48     Second sign Post with Bases     Second sign Post with Bases     Second sign Post with Bases	<ul> <li>All sign bases are black</li> <li>Sign Posts – High-tensile galvanized steel posts resist corresion. Not punched.</li> <li>Sign Posts with Fuerched.</li> <li>Sign Posts with Fuerched</li></ul>		ring Brackets, Clamp-On 2 % rracket, Bolt-On 1 % in x1 % in Squ unting Hardware, Bolt-On 2 in x 2 in Squ 2 in x 2 in Squ 2 %	Brackets, Strap-On 4 in to gn Mounting Brackets, Clamp-On 2 % Vian Mounting Brackets, Clamp-On 2 %	Description Compat	a Post Drivers Steel	Description Material	re-48 in L Steel Asphalt, Concrete, Standard Soll 0 Square	steel Asphalt, Concrete, Standard Soll 0 Square	Steel Asphalt, Concrete 4 Square	Standard Soli 0 Round	n Concrete <u>3</u> Square -Gravind Slan Post Anchor -Gravind Slan Post Anchor	f Ground Type for Anchor Holes Sign Post S urface-Mount Sign Post Anchors	2 in x 2 in 2 in x 2 in 2 in x 2 in No. of Com	re, 2 % in Round, 2 in X 2 in Square, Round 70 lb 3 % in X 1 % in U-Channel Cone 72 lb	re 2.% in Hound, 2 in Kound 5 in 2.% in x 1 ½ in Round 7 lb 1.% in x 1 ½ in Round 8 lb Post Bases	Compatible Base Base Base Sign Post Style and Size Shape W1.
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SAFETY

Material Strap-On Brand TAPCO 1853 Silver Color Finish Includes Stainless Steel Number of Sides No Adjustment Mounting Bracket Adjustment Angle No Series **Mounting Bracket Style** Mounting Bracket Attachment Method **Mounting Bracket** 4 in to 12 in Round Sign Post Mounts To Unfinished Hardware Type Leg Strapping Bracket **Mounting Bracket Type Compatible Sign Post** Catalog Page **Product Details** 

(2) +4SS Flared Leg Brackets, (2) 5/16 × 5/8 in Hex Head Bolts, (2) 3/8 in Nylon Washers, (4) End Pieces, (2) 36 in Pre Cut Straps, (2) 5/16 × 1-3/4 in Hex Head Bolts, (2) 5/16 in Hex Nuts

UNSPSC

55121908

Country of Origin

Canada (subject to change)

Product Details Feedback



### TECHNICAL DATA SHEET EXTERIOR MINERAL BONDING PRIMER

### PRODUCT DESCRIPTION

Mineral Bonding Primer is a sol-silicate primer designed to prepare exterior previously painted surfaces, glossy and tough to paint surfaces for subsequent painting with mineral paints and limewash. It provides tenacious adhesion and is ideal when multiple types of masonry are present, providing a uniform mineral surface. This providing a uniform mineral surface. This primer has a sanded texture and can make uneven and aged masonry appear more uniform. Fills small cracks up to 1/32".

### FIELD OF APPLICATION

Mineral Bonding Primer is used to bond to exterior previously painted and difficult to paint surfaces. It provides added adhesion when renovating or coating sound acrylic and silicone resin-based coatings, acrylic stucco, terracotta, brick, masonry and cement fiber siding. Do not use on floors or previous elastomeric coatings or oil base painted surfaces.

Mineral Bonding Primer is not a finish coat and can only be used as a base coat/primer; it must be over coated with 2 coats of a KEIM Mineral Masonry Paint or Limewash.

### PRODUCT PROPERTIES

- Moisture vapor permeable, will never peel due to hydrostatic pressure
- Keim Mineral Coatings of America, Inc



- Penetrates masonry and existing coatings and fuses—won't peel or lose adhesion
- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)
- Provides a uniform mineral surface for subsequent mineral and limewash topcoats and improves overall appearance
- Apply to a variety of mineral surfaces
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Naturally mold, algae and fungus resistant—no pesticides used
- Subtle, sand texture

### <u>Technical data</u>

Density	1.6 g/cm <sup>3</sup>
VOC (ASTM D6886)	< 1 g/liter
Organic Content	< 5%
Cured pH value	Approximately 11
Vapor Diffusion	sd (H2O) = <0.01 m
Water Absorption	W=0.20 kg/m2 h 0.5
Coefficient	(acc. to DIN EN
	1504)
Vapor Permeability	77 Perms
(ASTM E96)	
Flashpoint	Non-Flammable
Mildew Resistance	Passes—No fungal
ASTM D3273/D3274	growth

	sf/gallon
er applied at 275—325	Mineral Bonding Prime
ed on 1 coat of	All test results perform
Flat	ISO 2813
0.5 Mineral Matte	Gloss at 85°

### П nvironmental Compliance

EPA IFED	YES
LEED	YES
CARB	YES
SCAQMD	YES
Greenguard Gold	YES
Cradle to Cradle	YES

#### Colors:

White Matte Flat

## SPECIFICATIONS/SYSTEMS

Masonry Paint and Limewash. Use as a primer system for Keim Mineral

### SURFACE PREPARATION

clean and free of dust, grease, oils, salts, moss, algae and other substances that needed before painting. removed. Repair damaged areas as and loose latex or acrylic layers must be Old, oil base paints, loose substrate layers would prevent penetration and bonding. The substrate must be sound, solid, dry

### APPLICATION

brush, roller or airless spray. Mineral Bonding Primer may be applied by

- Roller Use a ½" to ¾" nap synthetic Brush - Use a nylon/polyester brush
- roller cover
- Airless Spray
- 0 Tip: .035 in Pressure: 3000 psi, minimum
- 0 0 Remove filters from gun and
- siphon tube only pump, use 30 mesh filter on

## Keim Mineral Coatings of America, Inc



#### Prime coat

dry 12 hours or overnight before recoating. Ready to use, apply as supplied. Allow it to

### Application conditions

sunlight, wind, and rain during and after application for a minimum of 12 hours. Protect coated surfaces from direct direct sunlight or on sun-heated substrates. and rising and below 95°F. Do not apply it in Ambient and substrate temperature: 40°F

#### Drying times

coverage dependent. Drying times are temperature, humidity and

Touch: 46 hour 24 hours
Recoat: 2448 hours 12 hours

#### Coverage

actual coverage on your s	consumption. Apply test $\varepsilon$	equipment used will all IMP	application conditions and	experience. Surface textu	Stated values are based of	Portland Stucco	CMU Block (split faced)	CMU Block (smooth)	Cement fiber Siding	Brick and Masonry	UBSTRATE	
surface.	area to determine	PACT	d type of	ıre, porosity,	on our	125—176 SF/GAL	50—75 SF/GAL	100150 SF/GAL	250-300 SF/GAL	200-250 SF/GAL	COVERAGE*	

#### Cleaning

in water during work breaks. solvent to prevent rusting of the equipment. equipment with a compliant cleanup water. After cleaning, flush spray immediately after use with soap and warm Tools should be kept in the paint material or Clean spills, spatters, hands, and tools

### Do not mix with water or other products <u>Mixing with other products</u>



# TECHNICAL DATA SHEET - CONTACT PLUS® SOL-SILICATE SANDED BONDING PRIMER

### PACKAGING

Gallon and 4 Gallon

#### STORAGE

Approx. 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

#### DISPOSAL

Dispose of completely emptied containers in accordance with local, state and federal waste regulations. Any residues must be emptied out of containers before recycling.

HAZARDOUS SUBSTANCE CLASS

n/a

TRANSPORT HAZARD CLASS

### SAFETY INSTRUCTIONS

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.

Keep out of reach of children.

The stated values and properties are the result of extensive development work and practical experience. Our recommendations for application, whether given verbally or in writing, are intended to provide assistance in the selection of our products and do not establish a contractual relationship. In particular, they do not release those purchasing and applying our products from the duty of establishing for themselves, with due care, the suitability of our products for the intended application. Standard building industry practices must be complied with.

Keim Mineral Coatings of America, Inc



We retain the right to make modifications to improve the products or their application. This edition supersedes all earlier editions.





Stand 01/17 USA



# TECHNICAL DATA SHEET **KEIM FIXATIVE + CONSOLIDANT**

# 1. PRODUCT DESCRIPTION

existing colors natural in appearance without altering which leaves the masonry surface completely and develops a natural mineral matte finish potassium silicate. It dries completely clear consolidation agent made from pure, liquid KEIM Fixative is a clear binder, thinner and

#### 2 FIELD OF APPLICATION

surfaces that are highly porous resulting in a more uniform topcoat appearance. Use KEIM untreated stone. moisture to a slower rate, then that of an but it will limit the absorption of ambient not a sealer as the stone remains breathable level. It fills voids and consolidates them. It is bonding the molecular structure on a cellular weakened and decayed masonry by repenetrating action strengthens and restores damaged masonry, brick and stone. Fixative as a mild consolidant for friable and masonry to eliminate future dusting. Use KEIM masonry dust and elements and consolidates masonry surfaces. Fixative "ties down" loose exterior brick, stone, stucco, concrete or any Fixative as an anti-dusting finish on interior or also helps to minimize variable porosity across coverage of subsequent mineral topcoats. It surfaces to reduce absorbency and extend permeable primer on very porous masonry Granital. Also use KEIM Fixative as a vapor Paints. systems, KEIM Purkristalat and KEIM Décor pure silicate-based, two-component paint Use KEIM Fixative as a binder and dilution for It may be used as a dilution for KEIM The

Recommended Uses:

- Interior and exterior
- Above grade
- Aged, decayed and friable masonry
- and brick
- Cast and precast concrete
- Natural stone
- Stucco surfaces

ω PRODUCT PROPERTIES

permanently with the substrate, is highly KEIM Fixative penetrates and bonds

> Fixativ contains no organic additives. Forms covalent chemical bonds, similar to to weathering and is incombustible. KEIM moisture vapor permeable, extremely resistant

those in original substrate—no synthetic polymers

- Extremely weather resistant
- crust Non-film forming, will not develop a hard
- Extremely moisture vapor permeable High binding power and fixing action
- Non-flammable
- UV resistant
- Hinders fungal and mold growth
- Resistant to acid rain and pollution
- Low viscosity allows deep penetration
- environmental impact Environmentally friendly with low

Technical data

< 1 g/liter	VOC
Fully miscible	Solubility in water
93+ perms	Vapor Permeability ASTM E 96
11.3	pH value
100%	Active Content
Class II:= 10 mm	Penetration Depth
approx. 1.17 g/cm <sup>3</sup>	Specific weight

Color: Clear (tea colored)

Environmental Compliance

FPA	
YES	

EPA	YES
LEED	YES
CARB	YES
SCAQMD	YES

### 4. SPECIFICATIONS/SYSTEMS

be thoroughly soaked and saturated with For proper performance, porous surface must Fixative. Depending on surface porosity, level

applications may be required of decay, etc. multiple and successive

### υ SURFACE PREPARATION

sound, dry, clean and free from dust and algae must be completely removed release agents, curing compounds, moss and grease. Loose areas, dirt, oily substances, The mineral substrate must be absorbent,

#### 6 **APPLICATION**

or as a consolidant: Pretreat highly absorbent or sanding surfaces

is extremely porous, sanding or decayed Multiple coats may be required if the surface surface with brush, roller or airless spray. 1:2 or 1:3. Apply diluted Fixative by flooding Dilute Fixative with clean water in ratio of 1:1,

Soak 5 kg of color powder in 4 liters of KEIM Fixativ <u>To mix with Purkristalat or Décor Paints:</u>

### Anti-dusting applications:

porous, sanding or decayed. coats may be required if surface is extremely with brush, roller or airless spray. Multiple 1:3. Apply diluted fixative by flooding surface Dilute Fixative with clean water in a ratio of

Refer to relevant technical data sheet To dilute Purkristalat, Décor Paints, or Granital:

### Application conditions

12 hours during and after application for a minimum of surfaces from direct sunlight, wind and rain and exposure to strong wind. Protect coated treated with Fixative. Avoid direct sunlight area). Nonabsorbent surfaces cannot be absorbency of the substrate (apply onto trial to be applied by flooding depends on the have to be cleaned beforehand. The quantity must be clean, dry and absorbent and may heated substrates. Equipment and tools must rising. Do not apply in direct sunlight or on sun-Ambient and substrate temperature: 40°F and be clean. The surface of the building material

#### Drying times

coverage dependent Drying times are temperature, humidity and

Reapply or topcoat: 10--24 hours Touch: 4--6 hour 40-50°F 2--4 hours 10 hours @ 50°F +

immediately after use with water. Cleaning Clean spills, spatters, hands, and tools

#### Coverage'

SUBSTRATE Cast or Pre-Cast Concrete Fiber Cement Siding Portland Stucco	COVERAGE* 250—300 SF/GAL 250—300 SF/GAL 125—175 SF/GAL
Portland Stucco	125—175 SF/GAL
CMU Block (smooth) and brick	75—100 SF/GAL
CMU Block (split faced or fluted)	25—50 SF/GAL
Gunite/Shotcrete	75—125 SF/GAL
Brick/Natural Stone Masonry	200—250 SF/GAL
*Stated values are based on smooth surfaces. Surface tey application conditions and t	our experience on :ture, porosity, /pe of equipment

used will all vary consumption. Only a test application, using desired mixing ratio and under of the system components accurately. production conditions will fore-cast consumption

#### 7. PACKAGING

4-liter (1.05 gal) and 24 liter (6.34 gal) Steel Pail

#### 00 STORAGE

heat and direct sunlight. under cool, frost-free conditions. Protect from Approx. 12 months in tightly closed container

#### 9. DISPOSAL

waste regulations. accordance with local, state and federal Dispose of completely emptied containers in

# HAZARDOUS SUBSTANCE CLASS

Not Applicable

#### LIMITATIONS

painted surfaces. Not for use below grade Do not apply to polished stone or previously

## **10. SAFETY INSTRUCTIONS**

### KEIM Fixative is alkaline.

Provide appropriate protection for surfaces which are not to be treated (e.g. glass, sidewalks, pavers, landscaping, etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes.

Keep out of reach of children

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for the latest in product technical information.



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### **TECHNICAL DATA SHEET**

# **PSS 20**<sup>®</sup> ECO GRAFFITI PROTECTION SYSTEM

### **1. PRODUCT DESCRIPTION**

PSS 20 is a breathable, completely reversible, and indiscernible system for protection against graffiti, tape and adhesive, gum, heel marks and airborne soiling for masonry, concrete and stone and mineral painted surfaces. Use on interior or exterior facades, walls, planters, etc.

PSS 20 is made of vegetable polysaccharides and water with a high viscosity and is completely biodegradable and safe to use. PSS 20 is a natural sustainable product that is harmless to man, animal life and the environment. PSS 20 is sprayed on to the wall in at least one or more coats with an Airless sprayer, where on drying it forms a gossamer-thin protective film, normally invisible to the eye and creates a fully breathable type of coating. PSS 20 should be applied by professionals and skilled tradesmen.

### 2. FIELD OF APPLICATION

PSS 20 can be applied to all washable substrates. In the case of water-repellent substrates (e.g., those treated with hydrophobic agents), the surface tension must first be reduced with a pre-treatment or primer. PSS 20 should only be used on vertical surfaces. PSS 20 is especially suitable for all kinds of natural and artificial stone facades, clinker, concrete, brick, mineral coatings, metal, and aluminum facades and is ideal for protecting public art.

### 3. PRODUCT PROPERTIES

PSS 20 is a "sacrificial" finish that does not seal the surface. It has no VOC or harmful ingredients. PSS 20 protective film is much more effective than permanent graffiti sealers by forming an invisible layer that naturally "breathes", allowing moisture vapor to escape without compromising the graffiti protection. In historic and preservation applications, PSS 20 can be easily reversed as it does not form a permanent bond with the surface. Soiled or tagged PSS 20 is easily removed from the surface with hot water, carrying with it all the dirt, spray paint, algae, dust, oil stains, etc. A replacement layer of PSS 20 is then reapplied to the surface, to continue to provide a protective barrier.

Non-yellowing

- Completely reversible—does not permanently bond to surface
- Almost indiscernible upon application does not dramatically alter the appearance of the surface
- Ideal for protecting delicate and historic surfaces
- Does not alter vapor permeability of surface Protects murals and public art
- Very U.V. and weather resistant
- > 95% biodegradable
- No VOC's or solvents, made from plant materials
- Chemically nonreactive
- Easy removal of soiled finish with warm water washing
- No toxic gases produced on decomposition by heat

Technical data	
Specific Weight	approx. 1.1 g/cm <sup>3</sup>
pH Value @ 20°C	approx. 6.5 (neutral)
Boiling point	100° C
Dry Film Thickness	1—1.5 mils per coat (minimum 2 coats required)
Water vapor permeability: according to DIN 52615:	Sd-value 0.012 m
Water Vapor Permeability ASTM E 96	80 perms
Carbonization: (LPM Construction materials lab Test No. A-13'041-1 of 18.03.93)	Good retardant effect
Viscosity	6000-7200 cpa
Flashpoint	Non-Flammable
VOC	0 g/liter
All test results performed on 2 200–250 SF/GAL and 14-day cu	coats PSS20 applied at re @ 77°F & 50% RH

### Color and Appearance

Clear, slightly cloudy gel—dries clear

### Environmental Compliance

SCAQMD	CARB	LEED	EPA	
YES	YES	YES	YES	

### 4. SURFACE PREPARATION

The substrate must be sound, clean, and free of oil, dust, grease, and silicone. <u>For absorbent substrates:</u> Thoroughly pre-wet substrate with clean water and allow excess water to run off. Surface should be saturated but not show signs of surface water (puddles

or pools). For non-absorbent substrates:

Substrate must be clean and dry at the time of application.

### 5. APPLICATION

PSS 20 is applied to the surface in two or three coats using airless spray equipment at a pressure of 1450 -2900 psi. When spraying, both vertical and horizontal overlapping pattern should be used, which together will correspond to a normal coat of PSS 20. Do not apply in hot conditions. Application in temperatures above 90°F may lead to rapid evaporation of the water in the finish leading to adhesion problems. Note: PSS 20 is very slippery in its liquid state.

#### <u>Drying times</u>

Drying times are temperature, humidity, and coverage dependent.

	@ 40-50°F	@ 50°F +
Touch:	46 hour	24 hours
Recoat:	2448 hours	24 hours

#### Coverage\*

SUBSTRATE	COVERAGE*
Masonry or Brick	100—200 SF/GAL
Natural Stone Masonry	100—250 SF/GAL
Cast or Pre-Cast Concrete	150—250 SF/GAL
Portland Stucco	75—125 SF/GAL
Mineral Paint Finish or Mural	150—250 SF/GAL

Metal Surfaces	200—250 SF/GAL
*Stated values are based on our e	perience on smooth
surfaces and are for one coat. Mu	tiple coats will require
more material. Surface texture, po	rosity, application
conditions and type of equipment	used will all vary
consumption. Only a test application	on under production
conditions will forecast consumpti	on accurately.

#### Cleaning

Clean spills, spatters, hands and tools immediately after use with soap and warm water. After cleaning, flush spray equipment with a compliant cleanup solvent to prevent rusting of the equipment.

### 6. GRAFFITI REMOVAL

come into contact with the actual surface and there is 20. 20 should be reinstalled immediately. surface is cleaned and dried, a replacement coat of PSS no "ghosting" or etching of the surface. Once the and disposed of in the solid state. The graffiti does not graffiti is no longer bonded, it can be easily collected "slough" off. Peel off together with the graffiti. As the protective film is saturated, it will swell and begin to less than 250 psi is recommended. When the PSS 20 damaging the surface. On soft surfaces, a pressure of C. Use the least amount of pressure possible, to avoid Saturate the surface to soften the outer layer of PSS pressure washer fitted with an adjustable fan nozzle chemicals. Remove soiled PSS 20 with a hot water removed with hot water, without the need for Graffiti on the PSS 20 protective film can be easily The water temperature should be between 60-70°

Further details on application and graffiti removal are available from Keim.

#### 7. PACKAGING

25-liter plastic jerry can

### 8. STORAGE

Approximately 2 years in tightly closed container under cool, frost-free conditions. Protect from heat and direct sunlight.

#### 9. DISPOSAL

Dispose of completely emptied containers in accordance with local, state, and federal waste regulations.

# HAZARDOUS SUBSTANCE CLASS

# **TECHNICAL DATA SHEET PSS 20 Eco Graffiti Protection System**

# **10. LIMITATIONS AND CAUTIONS**

PSS 20 should not be used on floors or other horizontal surfaces. Do not apply below 38°F or above 90°F. When removing PSS 20 be careful as it is slippery once removed with hot water.

### **11. SAFETY INSTRUCTIONS**

Provide appropriate protection for surfaces which are not to be coated (e.g. glass, natural stone, ceramics etc.). Any splashes on surrounding surfaces or traffic areas must be rinsed off immediately with plenty of water. Protect the eyes and skin from splashes. Keep out of reach of children.

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for the latest in product technical information.



### TECHNICAL DATA SHEET SOL-SILICATE ALL SURFACE MINERAL FINISH MONOCHROME COLORS

### PRODUCT DESCRIPTION

sound condition. nanoparticle technology that allows penetration of adhesion is enhanced with SOLDALIT's exposed to severe weather conditions. Tenacious surfaces. It is also ideal for all masonry surfaces acrylate copolymer to form both chemical and masonry surfaces and for bare masonry of all our very best exterior finish for previously painted existing organic, latex, or acrylic paints that are in and provides a mechanical anchor to most even the densest mineral or masonry substrates ferrous metals, granite, marble, pebble-dash mechanical bonds, even on the most difficult to inorganic mineral pigments and fillers and an types. SOLDALIT uses a proprietary formula SOLDALIT® Sol-silicate All Surface Mineral Finish is concrete and previous acrylic or latex painted ceramic glazed tile and terra cotta, glass, nongeneration mineral silicate paint is ideal for finishing paint substrates, without primer coats. This newcombining silica-sol and potassium silicate binders,

SOLDALIT meets all requirements of DIN 18.363, 2.4.1 "silicate emulsion paint".

### FIELD OF APPLICATION

SOLDALIT is applied typically as a 2 or 3 coat system and is recommended for new construction and renovation of sound acrylic and silicone resinbased paints, acrylic stucco, terracotta, bare masonry, all types of concrete, stone, and most other mineral substrates. It is ideal for restoration of historic structures and facades due to high vapor permeability coupled with water repellency. It may be applied over polymer modified cementitious patching compounds that are fully cured. Do not use over aged alkyd or oil-based paints, varnish, or lacquer. SOLDALIT is suitable for vertical facade installations and inclined surfaces. Do not use on floors.

### PRODUCT PROPERTIES

SOLDALIT protects masonry surfaces from the action of weather and prevents the penetration of atmospheric pollutants. It utilizes only lightfast inorganic mineral pigments and fillers, and colors will not fade, even in harsh U.V. environments. SOLDALIT is available in a smooth or sand texture base.

- Sol-Silicate binder system penetrates masonry and chemically bonds—won't peel or lose adhesion
- Copolymer modification provides mechanical bond to previously painted surfaces (as outlined)
- Lightfast mineral pigments—guaranteed not to fade or lose brilliance
- Apply to a variety of mineral surfaces
- Very water vapor permeable, microporous
- Completely resistant to pollution
- Provides extreme weather resistance and water repellency
- Noncombustible—won't add fuel or noxious smoke in case of fire
- Beautiful, mineral matte finish
- Anti-static, inert finish—won't attract or trap dirt or dust for walls that stay cleaner
- Naturally mold, algae and fungus resistant—no pesticides used

# ENVIRONMENTAL COMPLIANCE

UL Greenguard Gold	YES
EPA	YES
LEED	YES
CARB	YES
SCAOMD	YES
Cradle to Cradle Health	Gold
Cradle to Cradle	Silver

### Technical data

ed on 2 coats Soldalit 7/gallon	All test results performe applied at 300—350 sf
0.5 Mineral Matte Flat	Gloss at 85° ISO 2813
= 0	
Developed Index	
Index = 0; Smoke	ASTM E 84-08
Flame Spread	Characteristics
Class A	Surface Burning
Very Low	Chioride Ion Permeability
change at 24 hours	ASTM D1308
Passes—no visible	Alkali Resistance
Passes—No fungal growth	Mildew Resistance ASTM D3273/D3274
No water leakage	ASTM E514
Passes	Wind Driven Rain
type	
deterioration of any	G154
2016 Hours Passes	Accelerated
Non-Flammable	Flashpoint
77 Perms	Vapor Permeability (ASTM E96)
	No. 26)
	technical bulletin
rating No color	pigment (Fb-Code
A1 Best in class	Lightfastness of color
(acc. to DIN EN 1504)	Coefficient
W=0.20 kg/m2 h 0.5	Water Absorption
sd (H2O) = <0.01 m	Vapor Diffusion
Approximately 11	Cured pH value
< 5%	Organic Content
< 1 g/liter	VOC (ASTM D6886)
1.6 g/cm <sup>3</sup>	Density



### 9003S Red Oxide

### 9005 Green Oxide







#### 9004 Umbra

### 9011S Orange Oxide

9012S Chrome Green

### 9009S Cobalt Blue

9010S Dark Red Oxide

### 9008 Black Oxide

### 9006 Ultramarine Blue

### BOX COLORED PAINI

boxing and mixing for consistent color. together in larger containers and remix. power drill and paddle for 1colored paint should be thoroughly mixed with a To ensure consistency of color on large areas, all -3 minutes. Continue Box paint

## SPECIFICATIONS/SYSTEMS

For proper waterproofing and weather resistant performance, 2 coats of SOLDALIT must be applied be fully coated, with no pinholes, runs or holidays. at recommended coverage rates. Surface should

Concrete and cementitious patches (all types)

Pretreat: Keim Heavy Duty Cleaner (if needed) 1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat SOLDALIT as supplied

CMU Block

1 coat SOLDALIT as supplied 1 coat SOLDALIT diluted 10% with Soldalit Dilution 1 coat Contact Plus Grob Block Filler (as desired)

<u>Masonry (brick and stone) and stucco</u>

Soldalit Dilution (mixed 1:3 with water) Pretreat extremely porous surfaces (if needed):

1 coat SOLDALIT as supplied 1 coat SOLDALIT diluted 10% with Soldalit Dilution

Previously Painted Mineral Surfaces

1 coat SOLDALIT as supplied 1 coat SOLDALIT diluted 10% with Soldalit Dilution

Hard, Glossy Mineral Surfaces and Terracotta Scuff sand or abrade glossy surfaces (if needed)

1 coat SOLDALIT as supplied 1 coat SOLDALIT diluted 10% with Soldalit Dilution

applied in multiple coats as needed to saturate surface. CRITICAL RECOAT: <u>Apply first coat of</u> Added Water Repellency (on any mineral surface) Pretreat: Silan 100 Silane Water Repellency

Soldalit within 4-8 hours. DO NOT ALLOW SILAN 100 surface. TO DRY COMPLETELY

1 coat SOLDALIT as supplied 1 coat SOLDALIT diluted 10% with Soldalit Dilution

Patched, Cracked and Irregular Mineral Surfaces 1 coat of SOLDALIT Sand Texture Base (Grob)\*

diluted 10% with Soldalit Dilution

1 coat of SOLDALIT as supplied

0.5mm quartz granules. full coverage of finish. The maximum particle size is It is several shades lighter than the final color to allow for help fill-in cracks and voids up to 1/16" wide and deep appearance by adding a slight sand texture and can \*Texture base is designed to provide a more uniform final

### SURFACE PREPARATION

as needed with KEIM Heavy Duty or Light Duty substrate layers and loose latex or acrylic layers and bonding. Old oil-based coatings, loose other substances that would prevent penetration free of dust, grease, oils, salts, moss, algae, and Cleaner or KEIM Bio Cleaner. needed before painting. Clean mineral surfaces must be removed. Repair damaged areas as The substrate must be sound, solid, dry, clean, and

12 hours before proceeding. mineral coats may be stabilized and consolidated substrate porosity is variable or aged existing Soft, porous, or friable mineral surfaces, where porous surface to saturation. Allow surface to dry Dilution with 3 parts fresh water and apply to by pretreatment with SOLDALIT Dilution. Mix 1 part

### **APPLICATION**

spray. SOLDALIT may be applied by brush, roller, or airless

- Brush Use a nylon/polyester brush
- Roller Use a ½" to ¾" nap synthetic roller
- Airless Spray cover
- 0 Pressure: 3000 psi, minimum
- 0 Tip: .035 in

0

Remove filters from gun and pump only use 30 mesh filter on siphon tube

#### First coat

hours or overnight before recoating slow down dry in hot conditions. Allow it to dry 12 Dilution depending on the substrate porosity or to SOLDALIT may be diluted up to 10% with Soldalit

Keim Mineral Coatings of America, Inc



#### Topcoat

recoat window after the first coat has dried. a three-coat system intensive color shades it is recommended to apply NOTE: For extreme weather conditions or critical, Apply SOLDALIT undiluted, as supplied. There is no

### Application conditions

sunlight or on sun-heated substrates. Protect rising and below 95°F. Do not apply in direct coated surfaces from direct sunlight, wind, and rain hours during and after application for a minimum of 12 Ambient and substrate temperature: 40°F and

#### <u>Drying times</u>

coverage dependent. Drying times are temperature, humidity, and

	@ 40-50°F	@ 5U F +
Touch:	46 hour	24 hours
Recoat:	2448 hours	12 hours

#### 7

SUBSTRATE	COVERAGE*
Cast or Pre-Cast	275—325
Concrete	SF/GAL
Fiber Cement Siding	275
	SF/GAL
Brick and Masonry	225—275
	SF/GAL
CMU Block (smooth)	100150 SF/GAL
CMU Block (split faced or	50—75 SF/GAL
fluted)	
Portland Stucco	150—200
	SF/GAL
*Stated values are based o	'n our
experience with a smooth f	inish. Surface
texture, porosity, applicatio	n conditions and

#### <u>Clean Up</u>

consumption of the system accurately pro-duction conditions will forecast consumption.

Only a test application under

type of equipment used will all vary

should be kept in the paint material or in water during work breaks. Clean tools immediately after use with water. Tools

including concrete, masonry, glass, and metal. bond to mineral surfaces it is splashed onto This product may permanently etch and irreversibly and water. Clean spills, overspray, etc. immediately with soap

### Mixing with other products

the related system products, they must not be mixed with other products or additives, nor must To maintain the specific features of SOLDALIT and they be diluted with water.

#### Quart, Gallon and 4 Gallon PACKAGING

#### STORAGE

direct sunlight. Approx. 12 months in tightly closed container under cool, frost-free conditions. Protect from heat and

#### DISPOSAL

regulations. Any residues must be emptied out of accordance with local, state, and federal waste containers before recycling. Dispose of completely emptied containers in

n/a HAZARDOUS SUBSTANCE CLASS

n/a TRANSPORT HAZARD CLASS

### SAFETY INSTRUCTIONS

### **TEMPORARY IRRITATION** CAUTION! SKIN OR EYE CONTACT MAY CAUSE

water; get medical help if needed. irritation, consult a physician. In case of contact, If breathing is difficult, give oxygen. In case of skin unconscious person. If inhaled, remove to fresh air immediately. Never give anything by mouth to an handling. Keep container closed when not in use application indoors or wear respiratory protection doors or use other fresh air supply during Avoid breathing spray mist. Open windows and Use proper protective equipment and clothing immediately flush eyes, and skin with plenty of FIRST AID: If swallowed, give two glasses of water. (NIOSH Approved). Wash hands and skin after Do not induce vomiting. Call for medical help

must be complied with. We retain the right to application. Standard building industry practices the suitability of our products for the intended duty of establishing for themselves, with due care. relationship. In particular, they do not release those products and do not establish a contractual to provide assistance in the selection of our whether given verbally or in writing, are intended experience. Our recommendations for application extensive development work and practical editions their application. This edition supersedes all earlier make modifications to improve the products or purchasing and applying our products from the The stated values and properties are the result of



