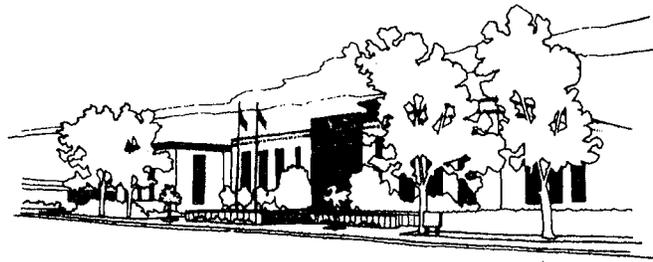


City of San Leandro

Civic Center, 835 E. 14th Street
San Leandro, California 94577
www.sanleandro.org



SAN LEANDRO BALL PARK LOCKER / RESTROOM REFURBISHMENT PROJECT NO. 2003.0331

ADDENDUM NO. (1)

August 28, 2014

TO: All Prospective Bidders

The additions and/or deletions contained in this Addendum shall be made a part of the plans and specifications and contract documents for the above described project, and shall be subject to all applicable requirements thereunder, as if originally shown and/or specified.

THE CONTRACT DOCUMENTS SHALL BE REVISED AS FOLLOWS:

Notice To Bidders:

1) *Revise the Notice to Bidders bid opening date (page 26) as follows:*

1. **BID OPENING:** The bidder shall complete the "Proposal to the City of San Leandro" form contained in the Contract Book. The proposal shall be submitted in its entirety. Incomplete proposals will be considered non-responsive. Sealed bids containing the completed Proposal Section subject to the conditions named herein and in the specifications for **San Leandro Ball Park Locker / Restroom Refurbishment, Project No. 2003.0331** addressed to the **City of San Leandro** will be received at **City Hall, 835 East 14th Street, 2nd Floor San Leandro** at the office of the **City Clerk** up to **3:00 p.m. on Wednesday, September 3, 2014**, at which time they will be publicly opened and read.

Technical Specifications:

- 1) *Revise Section 07-1800 "Traffic Coatings and Sealants," by adding the following information to the list at the end of Paragraph 3.1A:*
 2. The surface of the existing coated bleachers surfaces shall be thoroughly cleaned with soapy water and powered scrubbers.
 3. Once clean and dry, Vulkem 191 Low VOC primer is to be applied as an intermediate between old and new coatings. Then the 350NF / 951NF system is applied in accordance with manufacturer's published instructions (attached as supplemental information to bidders).
 4. Note that manufacturer products and their respective preparation requirements may vary; the above preparation serves as a minimum bid requirement based on the TREMCO product 'basis of design'. Other manufacturer's equivalent products may be used, but any additional preparation required by such products is the contractor's responsibility.

Stephen H. Cassidy, Mayor

City Council:

Pauline Russo Cutter

Michael J. Gregory

Benny Lee

Jim Prola

Ursula Reed

Diana M. Souza



- 2) *Specification section “08 -1113 Hollow Metal Doors and Frames.” Add the following manufacturer to Subsection 2.1 A:*
- 5. Meskar Door.
- 3) *Replace specification sections with the attached:*
- a. 02-2023 – Interior Finish Carpentry
 - b. 09-9113 – Exterior Painting
 - c. 09-9123 – Interior Painting

Drawings:

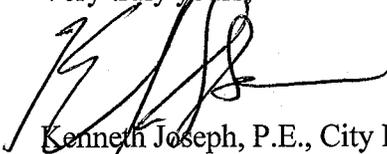
- 1) Wall legend on Sheet A2.2 is replaced with the following legend.
- 2) Door schedule on Sheet A8.1 is replaced with the attached schedule.

PLEASE NOTE

NEW BID OPENING DATE OF WEDNESDAY, SEPTEMBER 3, 2014 at 3:00 P.M.

Acknowledge this addendum and include a signed copy of the Acknowledgement Form in your Proposal. If you have any questions, please contact the Project Engineer, Mark Goralka, at 510-577-3329 or at mgoralka@sanleandro.org.

Very truly yours,



Kenneth Joseph, P.E., City Engineer
Engineering and Transportation Department
kjoseph@sanleandro.org

KJ:NT:MG:pdt

ACKNOWLEDGEMENT ADDENDUM NO. (1)

(Include a signed copy of this form in your proposal)

I hereby acknowledge receipt of this Addendum for the above noted project.

_____ Date: _____
(Signature)

(Business Name – Please Print)

cc: Internal Plans & Specs Distribution List
COSL Current Plan-holders

06 2023 - INTERIOR FINISH CARPENTRY

PART 1 - GENERAL

1.1 SUMMARY

- A. Section Includes:
 - 1. Interior trim.
 - 2. Interior plywood paneling.
 - 3. *Interior FRP Wall Panels at Toilet Rooms*
- B. Related Requirements:

1.2 ACTION SUBMITTALS

- A. Product Data: For each type of process and factory-fabricated product.
- B. Samples: For each type of paneling.

PART 2 - PRODUCTS

2.1 MATERIALS, GENERAL

- A. Lumber: DOC PS 20.
 - 1. Factory mark each piece of lumber with grade stamp of inspection agency indicating grade, species, moisture content at time of surfacing, and mill.
 - a. For exposed lumber, mark grade stamp on end or back of each piece, or omit grade stamp and provide certificates of grade compliance issued by inspection agency.
- B. Softwood Plywood: DOC PS 1.
- C. MDO: ANSI A208.2, Grade 130, made with binder containing no urea-formaldehyde resin.

2.2 INTERIOR TRIM

- A. Softwood Lumber Trim:
 - 1. Species and Grade: Douglas fir-larch or Douglas fir south, Superior or C & Btr finish; NLGA, WCLIB, or WWPA.
 - 2. Maximum Moisture Content: 15 percent.
- B. Moldings for Opaque Finish (Painted Finish): Made to patterns included in WMMPA WM 12.
 - 1. Softwood Moldings: WMMPA WM 4, P grade.
 - a. Species: Eastern white, Idaho white, lodgepole, ponderosa, radiata, or sugar pine.
 - b. Maximum Moisture Content: 15 percent.
 - 2. Optional Material: Primed MDF.
- C. Molding Patterns: Match existing conditions.

2.3 PANELING

- A. Plywood Paneling: Manufacturer's stock hardwood plywood panels complying with HPVA HP-1, made without urea-formaldehyde adhesive.

3.4 PANELING INSTALLATION

- A. Plywood Paneling: Leave 1/4-inch gap at top, bottom, and openings. Install with uniform horizontal and vertical joints between panels as detailed.
 - 1. Attach panels to supports with flat head wood screws, pre-drilled and countersunk flush, at 8" on center to studs at 16" on center. Install fasteners in a uniform pattern as a part of the exposed finish wall system.
 - 2. Fasteners to be set flush with wood panels to the greatest practical extent for a prime and paint finish.
- B. *FRP Wall Paneling and Trim: Adhesive installation in compliance with manufacturer's recommended procedures and installation sequence.*

END OF SECTION

09 9113 - EXTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY:

- A. Section Includes: Painting and finishing of all altered or new exterior items and surfaces, unless otherwise indicated or listed under exclusions below:
 - 1. Paint all exposed painted surfaces, except as otherwise indicated, whether or not colors are designated.
 - 2. Include field painting of exposed exterior plumbing, mechanical and electrical work, except as indicated below.

1.2 SUBMITTALS:

- A. Product Data: Submit complete manufacturer's descriptive literature and specifications in accordance with the Special Provisions.
 - 1. Materials List: Submit complete lists of materials proposed for use, giving the manufacturer's name, catalog number, and catalog cut for each item when applicable. When required, provide a list of paint and coating materials proposed for use, which equates such materials with the design-basis products specified.
- B. Samples: In accordance with provisions of the Special Provisions, submit, on 8-1/2 inch by 11 inch hardboard, samples of each color, gloss, texture and material selected by the Architect from standard colors available for the coatings required.

1.3 QUALITY ASSURANCE:

- A. Regulatory Requirements: Comply with applicable codes and regulations of governmental agencies having jurisdiction including those having jurisdiction over airborne emissions and industrial waste disposal. Where those requirements conflict with this Specification, comply with the more stringent provisions.
- B. Regulatory changes may affect the formulation, availability, or use of specified coatings. Confirm availability of coatings to be used prior to job going out to bid and before start of painting project.
 - 1. Comply with the current applicable regulations of the California Air Resources Board (CARB) and the Environmental Protection Agency (EPA).

1.4 DELIVERY, STORAGE, AND HANDLING:

- A. Storage and Protection: Use all means necessary to protect the materials of this Section before, during, and after installation.
- B. Deliver materials to job site in new, original, and unopened containers bearing manufacturer's name and trade name. Store where directed in accordance with manufacturer's instructions.

1.5 PROJECT CONDITIONS:

- A. Do not apply exterior materials during fog, rain or mist, or when inclement weather is expected within the dry time specified by the manufacturer. No exterior or interior painting shall be done until the surfaces are thoroughly dry and cured. Do not apply paint when temperature is below 50° F. Avoid painting surfaces when exposed to direct sunlight.

- B. Provide WET PAINT signs, barricades, and other devices required to protect newly finished surfaces. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.

3.3 PREPARATION:

- A. Perform preparation and cleaning procedures in strict accordance with coating manufacturer's instructions for each substrate condition.
- B. Concrete and masonry surfaces shall be dry, clean, and free of dirt, efflorescence, encrustation, and other foreign matter. Glazed surfaces on concrete shall be roughened or etched to uniform texture.
- C. Ferrous metal shall be cleaned of oil, grease, and foreign matter with solvent. Prime within 3 hours after preparation.
- D. Sand and scrape metal to remove loose primer and rust.
- E. Galvanized metal shall be chemically or solvent cleaned and then retreated with an etching-type solution if recommended by the finish manufacturer. Cleaned and retreated galvanized metal shall be primed the same day that cleaning has been performed.
- F. Remove dust, grit and foreign matter from wood surfaces. Sand surfaces and dust clean. Spot coat knots, pitch streaks, and sappy section with pigmented stain sealer when surfaces are to be painted. Fill nail holes, cracks and other defects after priming and spot prime repairs when fully cured.
- G. Remove hardware and accessories, machined surfaces, plates, lighting fixtures and similar items in place and not-to-be-finish painted, or provide surface-applied protection. Reinstall removed items upon completion of work in each area.
- H. Existing surfaces to be recoated shall be thoroughly cleaned and deglossed by sanding or other means prior to painting. Patched and bare areas shall be spot primed with same primer as specified for new work.
- I. Thoroughly backpaint all surfaces of exterior and interior finish lumber and millwork, including doors and window frames, trim, cabinetwork, etc., which will be concealed after installation. Backpaint items to be painted or enameled with the priming coat. Use a clear sealer for backpriming where transparent finish is required.
- J. Pipes, ducts, hangers, exposed steel and ironwork, and primed metal surfaces of equipment installed under mechanical and electrical work shall be cleaned prior to priming.
- K. Preparation of other surfaces shall be performed following specific recommendations of the coatings manufacturer.
- L. Bond breakers and curing agents must be removed and the surface cleaned before primers, sealers or finish paints can be applied.

3.4 APPLICATION:

- A. Apply painting and finishing materials in accordance with the manufacturer's submittals, as approved. Use applicators and techniques best suited for the material and surfaces to which applied.

C. Ferrous Metal

1. Flat – Acrylic
 - a. First Coat Bloc-Rust Premium, Rust Preventative Metal Primer (BRPR00)
 - b. Second Coat SPARTASHIELD, Exterior 100% Acrylic Flat Paint (SSHL10)
 - c. Third Coat SPARTASHIELD, Exterior 100% Acrylic Flat Paint (SSHL10)
2. Semi-Gloss – Acrylic
 - a. First Coat Bloc-Rust Premium, Rust Preventative Metal Primer (BRPR00)
 - b. Second Coat SPARTASHIELD, Exterior 100% Acrylic Semi-Gloss Paint (SSHL50)
 - c. Third Coat SPARTASHIELD, Exterior 100% Acrylic Semi-Gloss Paint (SSHL50)
3. Gloss – Acrylic
 - a. First Coat Bloc-Rust Premium, Rust Preventative Metal Primer (BRPR00)
 - b. Second Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
 - c. Third Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
4. Gloss – *Rust Preventative Acrylic*
 - a. First Coat Bloc-Rust Premium, Rust Preventative Metal Primer (BRPR00)
 - b. Second Coat SYN-LUSTRO, Water-based Rust Preventative Gloss (W10)
 - c. Third Coat SYN-LUSTRO, Water-based Rust Preventative Gloss (W10)

D. Galvanized Metal

1. Flat – Acrylic
 - a. Pretreatment *Krud Kutter Metal Clean and Etch*
 - b. First Coat *Ultra Grip Premium Multi-purpose Primer (UGPR00)*
 - c. Second Coat SPARTASHIELD, Exterior 100% Acrylic Flat Paint (SSHL10)
 - d. Third Coat SPARTASHIELD, Exterior 100% Acrylic Flat Paint (SSHL10)
2. Semi-Gloss – Acrylic
 - a. Pretreatment *Krud Kutter Metal Clean and Etch*
 - b. First Coat *Ultra Grip Premium Multi-purpose Primer (UGPR00)*
 - c. Second Coat SPARTASHIELD, Exterior 100% Acrylic Semi-Gloss Paint (SSHL50)
 - d. Third Coat SPARTASHIELD, Exterior 100% Acrylic Semi-Gloss Paint (SSHL50)
3. Gloss – Acrylic
 - a. Pretreatment *Krud Kutter Metal Clean and Etch*
 - b. First Coat *Ultra Grip Premium Multi-purpose Primer (UGPR00)*
 - c. Second Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
 - d. Third Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)

E. Wood Substrates: Including wood trim architectural woodwork windows wood siding.

1. Latex System:
 - a. Prime Coat: *Primer, EZ-Prime Premium Primer (EZPR00)*
 - b. Intermediate Coat: Latex, exterior, matching topcoat.
 - c. Topcoat: *SPARTASHIELD, Exterior Flat Paint (SSHL10)*
 - d. Topcoat: *SPARTASHIELD, exterior Low Sheen Paint (SSHL40)*
 - e. Topcoat: *SPARTASHIELD, Exterior Semi-gloss Paint (SSHL50)*
 - f. Topcoat: *SPARTASHIELD, Exterior Gloss Paint (SSHL60)*

END OF SECTION

09 9123 – INTERIOR PAINTING

PART 1 - GENERAL

1.1 SUMMARY:

- A. Section Includes: Painting and finishing of all altered or new interior items and surfaces, unless otherwise indicated or listed under exclusions below:
 - 1. Paint all exposed surfaces, except as otherwise indicated, whether or not colors are designated.
 - 2. Include field painting of exposed interior plumbing, mechanical and electrical work, except as indicated below.

1.2 SUBMITTALS

- A. Product Data: Submit complete manufacturer's descriptive literature and specifications in accordance with the Special Provisions.
 - 1. Materials List: Submit complete lists of materials proposed for use, giving the manufacturer's name, catalog number, and catalog cut for each item when applicable. When required, provide a list of paint and coating materials proposed for use, which equates such materials with the design-basis products specified.
- B. Samples: In accordance with provisions of the Special Provisions, submit, on 8-1/2 inch by 11 inch hardboard, samples of each color, gloss, texture, and material selected by the Architect from standard colors available for the coatings required.

1.3 QUALITY ASSURANCE:

- A. Regulatory Requirements: Comply with applicable codes and regulations of governmental agencies having jurisdiction, including those having jurisdiction over airborne emissions and industrial waste disposal. Where those requirements conflict with this Specification, comply with the more stringent provisions. Regulatory changes may affect the formulation, availability, or use of specified coatings. Confirm availability of coatings to be used prior to job going out to bid and before start of painting project.
 - 1. Comply with the current applicable regulations of the California Air Resources Board (CARB), the local AQMD, and the Environmental Protection Agency (EPA).

1.4 DELIVERY, STORAGE, AND HANDLING:

- A. Storage and Protection: Use all means necessary to protect the materials of this Section before, during, and after installation.
- B. Deliver materials to job site in new, original, and unopened containers bearing manufacturer's name and trade name. Store where directed in accordance with manufacturer's instructions.

1.5 PROJECT CONDITIONS:

- A. Do not apply exterior materials during fog, rain or mist, or when inclement weather is expected within the dry time specified by the manufacturer. No exterior or interior painting shall be done until the surfaces are thoroughly dry and cured. Do not apply paint when temperature is below 50° F. Avoid painting surfaces when exposed to direct sunlight.

- B. Provide WET PAINT signs, barricades, and other devices required to protect newly finished surfaces. Remove temporary protective wrappings provided by others for protection of their work after completion of painting operations.

3.3 PREPARATION:

- A. Perform preparation and cleaning procedures in strict accordance with coating manufacturer's instructions for each substrate condition.
- B. Concrete and masonry surfaces must be dry, clean, and free of dirt, efflorescence, encrustation, and other foreign matter. Glazed surfaces on concrete must be roughened or etched to uniform texture.
- C. Ferrous metal shall be cleaned of oil, grease, and foreign matter with solvent. Prime within 3 hours after preparation.
- D. Sand and scrape metal to remove loose primer and rust.
- E. Solvent clean galvanized metal and then treat with an etching-type solution if recommended by the finish manufacturer. Prime cleaned and treated galvanized metal the same day that cleaning has been performed.
- F. Remove dust, grit and foreign matter from wood surfaces. Sand surfaces and dust clean. Spot coat knots, pitch streaks, and sappy section with pigmented stain sealer when surfaces are to be painted. Fill nail holes, cracks, and other defects after priming and spot prime repairs when fully cured.
- G. Remove hardware and accessories, machined surfaces, plates, lighting fixtures, and similar items in place and not-to-be-finish painted, or provide surface-applied protection. Reinstall removed items upon completion of Work in each area.
- H. Existing surfaces to be recoated must be thoroughly cleaned and deglossed by sanding or other means prior to painting. Spot prime patched and bare areas with same primer as specified for new work.
- I. Thoroughly back paint all surfaces of exterior and interior finish lumber and millwork, including doors and window frames, trim, and cabinetwork that will be concealed after installation. Back paint items to be painted or enameled with the priming coat. Use a clear sealer for back priming where transparent finish is required.
- J. Bare and covered pipes, ducts, hangers, exposed steel and ironwork, and primed metal surfaces of equipment installed under mechanical and electrical work must be cleaned prior to priming.
- K. Preparation of other surfaces shall be performed following specific recommendations of the coatings manufacturer.
- L. Bond breakers and curing agents must be removed and the surface cleaned before primers, sealers or finish paints can be applied.
- M. All drywall surfaces must be completely dry and dust free before painting. Skim coated drywall must be sealed with an alkyd based sealer or a waterborne sealer recommended by the paint manufacturer for this surface. Use the appropriate light or medium tack masking tape.

5. Gloss, Acrylic
 - First Coat VINYLASTIC Select, Interior Wall Sealer (VNSL00)
 - Second Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
 - Third Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)

C. Plaster, Concrete

1. Flat, Acrylic Copolymer
 - First Coat EFF-STOP Select, Interior/Exterior Masonry Primer (ESSL00)
 - Second Coat SPARTAWALL, Interior Flat Paint (SWLL10)
 - Third Coat SPARTAWALL, Interior Flat Paint (SWLL10)
2. Eggshell, Acrylic
 - First Coat EFF-STOP Select, Interior/Exterior Masonry Primer (ESSL00)
 - Second Coat SPARTAWALL, Interior Eggshell Paint (SWLL30)
 - Third Coat SPARTAWALL, Interior Eggshell Paint (SWLL30)
3. Low Sheen, Acrylic
 - First Coat EFF-STOP Select, Interior/Exterior Masonry Primer (ESSL00)
 - Second Coat SPARTAWALL, Interior Low Sheen Paint (SWLL40)
 - Third Coat SPARTAWALL, Interior Low Sheen Paint (SWLL40)
4. Semi-Gloss, Acrylic
 - First Coat EFF-STOP Select, Interior/Exterior Masonry Primer (ESSL00)
 - Second Coat SPARTAWALL, Interior Semi-Gloss Paint (SWLL50)
 - Third Coat SPARTAWALL, Interior Semi-Gloss Paint (SWLL50)
5. Gloss, Acrylic
 - First Coat EFF-STOP Select, Interior/Exterior Masonry Primer (ESSL00)
 - Second Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
 - Third Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)

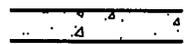
D. Wood

1. Flat, Acrylic Copolymer
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTAWALL, Interior Flat Paint (SWLL10)
 - Third Coat SPARTAWALL, Interior Flat Paint (SWLL10)
2. Eggshell, Acrylic
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTAWALL, Interior Eggshell Paint (SWLL30)
 - Third Coat SPARTAWALL, Interior Eggshell Paint (SWLL30)
3. Low Sheen, Acrylic
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTAWALL, Interior Low Sheen Paint (SWLL40)
 - Third Coat SPARTAWALL, Interior Low Sheen Paint (SWLL40)
4. Semi-Gloss, Acrylic
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTAWALL, Interior Semi-Gloss Paint (SWLL50)
 - Third Coat SPARTAWALL, Interior Semi-Gloss Paint (SWLL50)
5. Gloss, Acrylic
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)
 - Third Coat SPARTASHIELD, Exterior 100% Acrylic Gloss Paint (SSHL60)

E. Ferrous Metals

1. Flat, Acrylic Copolymer
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)
 - Second Coat SPARTAWALL, Interior Flat Paint (SWLL10)
 - Third Coat SPARTAWALL, Interior Flat Paint (SWLL10)
2. Eggshell, Acrylic
 - First Coat ULTRA-GRIP Premium, Multi Purpose Primer (UGPR00)

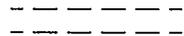
WALL LEGEND



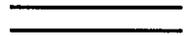
(E) 8" THICK CONCRETE WALLS
TO REMAIN



(E) WOOD STUD WALLS
TO REMAIN



(E) WOOD STUD WALLS
TO BE REMOVED, SEE DEMO PLAN



(N) WOOD STUD WALLS -
2x4 @ 16" OC TO +14" AFF U.N.O.
2x4 @ 16" OC TO +20' AFF U.N.O.
SEE DETAIL E6/A9.1



(E) WOOD STUD WALLS TO +14'-2",
ADD (N) UPPER WALL TO UNDERSIDE
OF (E) SEATING



(N) TOILET PARTITION,
NOTE 10.2/-



(E) CHAIN LINK FENCE
TO REMAIN

SHEET A2.2

Application Instructions

TREMCO®

Vulkem® 350NF/951NF

Vulkem Pedestrian Deck Coating System

1. Purpose

1.1 The purpose of this document is to establish uniform procedures for applying the **Vulkem 350NF/951NF Pedestrian Deck Coating System**. The techniques involved may require modifications to adjust to jobsite conditions. If you have any questions about your application, contact your local Tremco Sales Representative for specific design requirements.

1.2 This document will provide the necessary instructions and troubleshooting for the application of the Vulkem Pedestrian Deck Coating to qualify for the manufacturer's warranty.

2. Inspection of Jobsite Conditions

2.1 Investigation of the substrate should be performed to determine the type of surface preparation that will need to take place to achieve the appropriate surface profile required for the coating application. Depending on the condition of the concrete, one or more types of surface preparations may be required. Refer to **ICRI's Technical Guideline No. 03732-Selecting and Specifying Concrete Surface Preparation for Sealers, Coatings and Polymer Overlays** for best practices on selecting the appropriate method of concrete preparation. Thin film or high-build coatings will require the surface profile, CSP 3-4.

3. Conditions of Concrete Surfaces

3.1 Concrete shall be water-cured and in place for at least 14 days. The industry standard for curing concrete is 28 days and is our recommendation prior to installing the coating materials. A period of 28 days is usually sufficient to allow excess moisture to leave a concrete slab.

3.2 Concrete must be dry prior to the coating application. Excess moisture in the concrete can prevent the coating materials from performing as intended. To detect whether or not the concrete contains excess moisture, several tests may be employed:

- ASTM D4263 – Standard Test Method for Indicating Moisture in Concrete by the Plastic Sheet Method
- ASTM F2170-02 – Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs
- Calcium Chloride Test
- Tramex moisture meter may also be used for decks not exposed to sunlight. Contact Tremco Technical Services if this method is used.

3.3 Concrete shall be free of any laitance and can usually be achieved by shotblasting (preferred method) or sandblasting the surface. For proper methods, refer to **ICRI's Technical Guideline No., 03732**. For supplier information contact Tremco Technical Services.

3.4 Concrete surface shall be properly cleaned so that the surface to receive the coating, sealant or liquid-applied flashing is free of mold, paint, sealers, coatings, curing agents, loose particles, and other contamination or foreign matter that may interfere with the adhesion. Jobsite conditions may require the use of a Vulkem primer. Consult a Tremco Technical Services Representative for recommendations prior to installing materials.

3.5 Shrinkage cracks in the concrete surface that are 1/16 inch (1.6mm) wide or greater shall be ground out to a minimum 1/4 inch wide by 1/2 inch (6mm x 12mm) deep and treated according to the instructions in Section 7, Detail Work.

3.6 Structural cracks regardless of width shall be ground out to a minimum 1/4 inch wide by 1/2 inch (6mm x 12mm) deep and treated according to the instructions in Section 7, Detail Work.

3.7 Spalled areas shall be cleaned free of loose contaminants prior to repair. Because jobsite conditions vary, it is recommended that you contact Tremco Technical Services for the best method of repair.

3.8 In the event of exposed reinforcing steel, it is recommended that the structural engineer of record be contacted for investigation and for best repair method.

3.9 Surfaces shall be made free of defects that may telegraph and show through the finished coating. Surfaces that are rough (fins, ridges, exposed aggregate, honeycombs, deep broom finish, etc.) shall be leveled and made smooth by applying a coat of sand-filled epoxy. If filler material is porous, it should be sealed with Vulkem Primer #171, TREMprime Multi-Surface Urethane Primer, or Vulkem Primer #191 LV at a rate of 250-300 square feet per gallon. For epoxy recommendations, contact Tremco Technical Services.

3.10 All drains shall be cleaned and operative. Drains shall be recessed lower than the deck surface. The surface shall be sloped to drain to provide positive drainage. Drains should be detailed as instructed below:

- Cut a 1/4 inch wide by 1/4 inch deep (6mm x 12mm) keyway into the concrete surface at any point where the coating will have an exposed terminating edge -- that is, any point where the coating will end in an open area subject to traffic, for example, at the end of a ramp, around drains and alongside expansion joints.

3.11 If the project is a restoration deck, old sealant and backing material shall be removed. The joint interface will require a thorough wire brushing, grinding, sandblasting, solvent washing and/or primer.

7.7a Prior to use, Vulkem 350NF should be mixed with a spiral paint mixing paddle at a rate of 500 rpm for a minimum of 5 minutes. For further detail, please refer to the Vulkem 350NF Mixing Guide at tremcosealants.com.

7.7b Apply a 30 mil thick detail coat of Vulkem 350NF Roller Grade 6 inches (150mm) wide centered over all untreated cracks, all routed and sealed cracks and over all cold joints. Feather terminating edge of detail coat to prevent these edges from showing through the finished coating

7.8 Allow all detail coats to cure for a minimum of 4 to 6 hours depending on temperature and humidity.

8. Coating Application

8.1 Please refer to mixing instructions in Section 7.7a.

8.2 Apply Vulkem 350NF at a rate of 40 square feet per gallon to yield 40 wet mils thick to the entire area to be coated, including over all detail coats but excluding expansion joints. The recommended method of application is with a notched squeegee followed by cross rolling. Backroll to evenly distribute coating and to eliminate pinholes. Vulkem 350NF can also be applied with a roller equipped with a solvent-resistant, medium-nap roller sleeve. Note: For squeegee or roller grade application in sloped areas, use Vulkem 350NF/R (Roller Grade) which has been formulated for vertical hold.

8.3 Allow Vulkem 350NF to cure a minimum of 4 to 6 hours and a maximum of 24 hours at 75° F (24° C), 50% relative humidity. For cure rates on the Vulkem 350NF, refer to the chart below or contact Tremco Technical Services.

8.4 I If the Vulkem 350NF has been applied for 24 hours or longer during ideal the ideal temperature application range (see chart on last page of this document), it should be cleaned with a damp cloth of xylene (do not saturate it). Prime coat it with Vulkem Primer #191 or Vulkem Primer #191, Low VOC. We highly recommend that you contact your local Tremco Sales Representative with any questions regarding priming.

Method A:

8.5a Mix Vulkem 951NF Topcoat for 1-2 minutes using an appropriate mixing blade in an electric drill to ensure there is no settlement in the bottom of the pail and the color of the material is even and consistent with no streaks or striations. The Vulkem 951NF requires the addition of the Part B to properly cure. While mixing slowly, add the Vulkem 951NF Part B. Mix the Vulkem 951NF for an additional 1-2 minutes, scraping the sides down with a spatula. Make sure the Vulkem 951NF Part B is fully incorporated prior to proceeding. Boxing of pails is recommended for large jobs. For appropriate mixing equipment, contact Tremco Technical Services.

8.5b Apply the mixed Vulkem 951NF with a medium-nap, solvent-resistant roller sleeve at a rate of 125 square feet per

gallon (2.8 m²/L) to yield approximately 12 wet mils. Remove excess material from the roller by using a screen in the pail to avoid puddles or ponding.

8.5c Apply the Vulkem 951NF in sections that can be easily reached for backrolling. Immediately after applying the Vulkem 951NF, broadcast a 30-40 mesh (0.4-0.5mm diameter) silica sand or aluminum oxide into the wet Vulkem 951NF and backroll to evenly distribute the aggregate. For a moderately textured finish, use 15 to 18 pounds of sand per gallon of Vulkem 951NF (0.5kg/L). Backrolling is necessary regardless of how the sand is broadcast (i.e. hand, seed spreader, etc.) to ensure that all of the sand is completely encapsulated into the liquid.

Method B:

8.6a Mix Vulkem 951NF Topcoat as stated in 8.5a. Boxing of pails is recommended for large jobs. For appropriate mixing equipment contact Tremco Technical Services.

8.6b Apply the mixed Vulkem 951NF with a medium-nap, solvent-resistant roller sleeve at a rate of 125-100 square feet per gallon (2.8-2.45 m²/L) to yield 12-15 wet mils. Take care to apply an even coat without puddles or thick roller edge lines.

8.6c Broadcast the 30-40 mesh aggregate onto the wet surface of the Vulkem 951NF top coat. Cover the entire surface leaving no visible wet spots. This method is sometimes referred to as flood to refusal or beaching the coating.

8.6d Allow the Vulkem 951NF to cure overnight.

8.6e Sweep and/or vacuum off all loose, unbound aggregate.

8.7 Mix the Vulkem 951NF top coat as specified in 8.5a.

8.7a Apply the Vulkem 951NF with a medium-nap, solvent-resistant roller sleeve at a rate of 125-100 square feet per gallon (2.8-2.45 m²/L) to yield 12-15 wet mils. Remove excess material from the roller by using a screen in the pail to avoid puddles or ponding. It is imperative that the aggregate is encapsulated but not buried in this second application. Use wet film mil gauges to measure mil thicknesses as work proceeds.

8.7b The textured properties of the finished deck coating system contribute to the system's wear resistance and slip resistance. Tremco recommends installing a test patch and gaining customer acceptance prior to installation.

8.7c Do not open to foot traffic for a minimum of 12 hours following full cure of Vulkem 951NF.

9 Clean up

9.1 Clean all adjacent areas to remove any stains or spills with MEK, Toluene or Xylene.

Approximate Cure Times at 50% Relative Humidity

Temperature at 50% Relative Humidity	350NF	951NF
32°-40° F 0°-4.4° C	72+ hours	48+ hours
40°-55° F 4.4°-12.8° C	48+ hours	40-48 hours
55°-65° F 12.8°-18.3° C	16-24 hours	12-24 hours
65°-85° F 18.3°-29.4° C	4-6 hours	3-6 hours
85° F 29.4° C	< or = 4 hours	< or = 4 hours

Variations in temperature and humidity can affect the cure rate of the coating. The above chart should be used as a guide only to determine the approximate rate of cure. Other factors can also influence the cure rate such as substrate temperature and enclosed environments. For more information about proper application procedures please refer to the Installation Instructions or contact Tremco Technical Services.

