



PCI #COR010

C.D. Smith Construction, Inc.
125 Camelot Drive
Fond du Lac WI, 54935
Phone: 1 920 924.2900

Project: 220057 - Heart of the Valley WWTF
801 Thilmany Road
Kaukauna, WI 54130

Potential Change Item #COR010

RFP 008 - Thickener and Filter Room Floor

To:	Heart of the Valley Metropolitan Sewerage District 801 Thilmany Road Kaukauna, WI 54130	From:	C.D. Smith Construction, Inc. 125 Camelot Drive Fond du Lac WI, 54935
Status:	Submitted-Not Proceeding/No Forecast	Created Date	2023-04-27
Schedule Impact:		OCO Number:	

POTENTIAL CHANGE ITEM SCOPE DESCRIPTION: *(The Contract Is Changed As Follows)*

Apply high build epoxy flooring around Flotation Thickener 1 and 2 in the Sludge Handling and Filtration Building to match the new high build epoxy flooring being installed. Provide coating system to precast, beams, and columns.

ATTACHMENTS:

Description	Cost Code	Category	Quantity	W/M	Rate	Final Amount
High Build Epoxy Flooring	093300	S		LS	\$	\$21,150.00
High Performance Coatings	099000	S		LS	\$	\$49,533.00
Bond (1%):						\$742.17
Subcontract Markup (5%):						\$3,534.15
Grand Total:						\$74,959.32

Heart of the Valley Metropolitan Sewerage District
801 Thilmany Road
Kaukauna, WI 54130

C.D. Smith Construction, Inc.
125 Camelot Drive
Fond du Lac WI, 54935

SIGNATURE

DATE

SIGNATURE

5/5/2023
DATE

MASSE'S FLOOR COATINGS, LLC

1855 Enterprise Drive • De Pere, WI 54115 • (920) 336-7332 Phone • (920) 336-7442 Fax • www.massesinc.com

HOTV METRO WWTF

05.02.2022REV#2RM

PROJECT ADDRESS: 801 THILMANY ROAD

CITY: KAUKAUNA **WI ZIP:** 54130

ATTENTION: ESTIMATOR

PROJECT DETAILS:

Item 2: Installation of **KEY RESIN 625 QUARTZ FLOOR PER SPEC** on the floor around the flotation thickener

810 sf of flooring and 115lf of 6" Cove and Curbing

Note: Flooring to be done on concrete surfaces only – no coating applied to metal surfaces.

Pricing for the work shown in Item 1 above is \$21,150.00

NOTES

- Prepare the surface by grinding. Any excess work to prep will be billed on a T&M basis.
- Saw-cut and key room transitions, drains and doorways
- Patch/level minor blemishes in the concrete prior to installation of new flooring system
- Color selection per customer
- Weekend and/or holiday installation costs are not included.
- Project is planned for completion in (3) three phases/mobilizations. Additional phases to be billed at \$1,500.00 per trip.
- Prices DO reflect prevailing wages.
- Pricing does not include a return trip for cleaning prior to substantial completion
- Due to restrictions set by the DOT we may commercially ship all material to your location and the cost of freight will be billed in addition to the prices noted above.
- Due to fluctuating market conditions on raw material pricing, Masses Floor Coatings, LLC reserves the right to pass along price increases or surcharges assessed by our suppliers to the customer for materials needed for the project. If the contract is awarded, customer may choose to have Masse's Floor Coatings order all materials at current pricing and hold for the project in order to avoid those potential cost impacts.

ADD-ONS:

- ☒ Floor shell protective covering installed at completion of job for- \$2.50/SF
- ☒ Moisture Mitigating Primer (If Needed) \$2.50/square foot
- ☒ On-Site Mockup - \$2,000.00
- ☒ Performance Bond (If Required) – 3% of Total Bid
- ☒ Additional Insurance (If Required)

Thank you for allowing us the opportunity to provide a quote on your upcoming project. We would enjoy putting our decades of experience to work for you by providing you with the perfect flooring system to fit your unique needs. If you have any questions regarding this quote, please email them to estimates@massesinc.com and we will be happy to provide any additional information that will be helpful as you make your flooring selection.

Sincerely

Ryan Murdock

Masse's Floor Coatings, LLC

920-639-2837

CONDITIONS SPECIFIC TO THIS PROJECT:

1. Power, water, permanent lighting or equivalent and dumpster to be provided by owner.
2. All leaks, water, oil, product etc. must be stopped by owner.
3. Work area must be cleared of all movable equipment, materials, etc. and kept free of all traffic until 24 hour after work is complete.
4. Floor coating will follow existing contour and will cure in 12 hrs.
5. Price includes normal acid etching / mechanical preparation and does not reflect special removal procedures required for curing membranes.
6. Foodstuffs contamination by odor of products used during floor installation shall not be the responsibility of the installer.
7. It is the owner's responsibility to guarantee that all material delivered to the job site must be stored in a dry, warm (65°) location.
8. It is the owner's responsibility for the security of all materials on-site that are supplied by Masse's Floor Coatings, LLC.
9. It is the owner's responsibility to guarantee that the floor temperature must be at a minimum of 65° prior to our arrival, during the project, and a minimum of 24 hours after.
10. Heating and ventilation system to be installed a minimum of two (2) weeks prior to our arrival.
11. The price includes providing a floor coating that is designed to follow the contour of the floor unless noted otherwise.

GENERAL CONDITIONS:

This proposal contains specific and general conditions. These conditions are necessary to define our scope of work, regulate our costs, and assure the best installation possible. Failure by owner to adhere to any of these conditions may cause additional costs to be incurred by MASSE'S FLOOR COATINGS, LLC (herein to be referred to as the said contractor). These costs for additional labor, equipment, materials or services incurred will be charged at the contractor's usual respective markup.

Masse's Floor Coatings, LLC will do our best to insure that pricing remains the same as our quote specifies. However, due to market fluctuations and availability at the time of the project installation, occasionally the product pricing fluctuates, and those additional costs and/or surcharges may be passed along in full, or in part, to the customer. The customer would be notified of such issues prior to performing the work involved.

WINTER CONDITIONS:

Upon delivery of our material to any job site, MASSE'S FLOOR COATINGS, LLC requires that a warm (65°), dry location be provided for the storage of all material. It is crucial that any liquids remain at room temperature. Please contact MASSE'S FLOOR COATINGS, LLC, Inc. to inform them if this condition can not be met. Installation areas should also be kept at a minimum of 65°. Please note that MASSE'S FLOOR COATINGS, LLC, Inc. does have cold cure material available. Please contact MASSE'S FLOOR COATINGS, LLC, Inc. for further information.

LIMITED WARRANTY:

MASSE'S FLOOR COATINGS, LLC, Inc. will warranty this product to be free from defects in material and workmanship under normal use and service for a period of one year from the date of installation as long as the project has been paid in full. MASSE'S FLOOR COATINGS, LLC, Inc. sole liability shall be limited to replacing or repairing this product if, within warranty period it:

- A. Becomes dis-bonded from substrate.
- B. Becomes chemically eroded by chemicals within the specifications range of the flooring material.
- C. Cracking other than where substrate has cracked.

THIS WARRANTY IS EXPRESSLY IN LIEU OF ALL OTHER WARRANTIES, EXPRESSED OR IMPLIED, INCLUDING THE WARRANTIES OF MERCHANTABILITY AND FITNESS FOR PURPOSE. MASSE'S FLOOR COATINGS, LLC, INC. SHALL NOT BE LIABLE FOR INDIRECT, INCIDENTAL, CONSEQUENTIAL OR OTHER DAMAGES OF ANY KIND. THIS WARRANTY SHALL NOT BE EXTENDED, ALTERED OR VARIED EXCEPT BY A WRITTEN INSTRUMENT SIGNED BY **MASSE'S FLOOR COATINGS, LLC, INC.**

Masse's Floor Coatings, LLC will make every attempt possible to correct any quality issues that should arise with our installation. If the customer contracts with an outside source to work on floors that were installed by Masse's, Masse's Floor Coatings, LLC will not be liable for the cost of those repairs. In addition, warranty coverage will become invalid on any areas that other contractors, or the customer, provides work on.

NOTICE:

Our flooring systems were not designed to be showroom floors, but to withstand industrial conditions. Our slip resistant finish can be cleaned by conventional brush or power washing - not mopping.

SAFETY PROGRAM

MASSE'S FLOOR COATINGS, LLC, Inc. is committed to Safety and has an established Employee Safety Program, and we will be happy to submit a copy of Company Policy for your review, any Questions PLEASE contact us.

TERMS

MASSE'S FLOOR COATINGS, LLC, Inc. will be responsible for holding the above quoted price for a period of 60 days from the date provided on this quotation. If a written Purchase Order Number is provided to MASSE'S FLOOR COATINGS, LLC within 30 days of the date on this quotation, MASSE'S FLOOR COATINGS, LLC will hold the quoted price for 90 days from the date the purchase order was written.

MASSE'S FLOOR COATINGS, LLC reserves the right to invoice up to 10% of the total project value stated on this quotation if said project is cancelled or postponed by the customer within 1 week of agreed start date provided.

OMNI GLASS & PAINT, LLC.
3530 OMNI DRIVE * OSHKOSH, WISCONSIN 54904 * COMPANY ID #1100807
PHONES: ☒ OSHKOSH (920) 233-3333
☐ GREEN BAY (920) 434-7772 ☐ SCHOFIELD (715) 355-893

PAINT JOB CHANGE #PT62003
Date: April 25, 2023

To: CD Smith

Project: Heart of the valley WWTF

CHANGE FOR THE ABOVE LISTED PROJECT;

Providing access, preparation and painting of the remaining walls, ceilings and supports in
room 203 over tanks, per revised plans and specifications;

- For the sum of.....\$49,533.00

Materials =\$18,470.00

Labor=\$31,063.00

Thank you for the opportunity to do this project. If you have any questions, please call me at our office.

Rick Edinger, Project Manager PH: 920-636-5691

Saved as; HOV WCD#8

IMPORTANT – PLEASE READ

- Terms are Net 10 Days from date of invoice
- Past due accounts are subject to interest at the rate of 1-1/2% per month (18% annually)
- Retainages (when allowed) are due immediately upon payment from owner
- All materials used are under warranty by the manufacturer. Warranties may vary by manufacturer. Omni Glass & Paint, LLC. does not warranty materials
- Quotation excludes any overtime unless otherwise noted
- All workmanship is warranted for one year from date of installation
- It is understood that if you use your own contract form, the conditions of this quotation fully apply, unless specifically written out and mutually agreed upon
- Backcharges for any services not specifically agreed to in writing, and/or backcharges of any other nature for delays to the project caused by conditions beyond our control will not be honored and is not part of this quotations
- Seller reserves the right to stop work or delivery whenever an account is in arrears, without recourse by affected parties

Accepted _____ OMNI GLASS & PAINT, INC.

Date _____ By _____

Karley Krupp

From: Rick Edinger <redinger@omnigp.com>
Sent: Thursday, May 4, 2023 8:18 AM
To: Karley Krupp
Subject: FW: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Totally understandable question.

The scaffolding installation, rental and removal attributes to the difference.

I have successfully performed many complex projects with this vendor and am confident that they are providing the safest and best solution to decking out and working over live sewage tanks.

The cost from API scaffolding is roughly \$10,000 with additional labor required of Omni to assist with the installation.

Hope that helps with the explanation.

Thank you,
Rick Edinger
PM Paint



Omni Glass & Paint, LLC

3530 Omni Drive
Oshkosh, WI 54904
920-636-5691

Celebrating over 50 years of quality people, quality service & quality products!

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From: Karley Krupp <kkrupp@cdsmith.com>
Sent: Wednesday, May 3, 2023 2:10 PM
To: Rick Edinger <redinger@omnigp.com>
Subject: [EXTERNAL] FW: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rick,

Please see the Engineers response to providing an itemized breakdown, below. Let me know your thoughts on this.

Thank you!
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermesen, Scott <shermesen@donohue-associates.com>

Sent: Tuesday, May 2, 2023 2:04 PM

To: Karley Krupp <kkrupp@cdsmith.com>

Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Sorry about that, I sent it out before adding in some additional info.

As for Omni, bid coating cost was around \$5/sf, current estimate is around \$7.08/sf. Just checking that costs went up that much.

Thanks,

Scott S. Hermesen, PE | Donohue & Associates, Inc.
HOV WWTF Resident Project Representative
D & M 920.366.4179

From: Karley Krupp <kkrupp@cdsmith.com>

Sent: Tuesday, May 2, 2023 12:25 PM

To: Hermesen, Scott <shermesen@donohue-associates.com>

Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

Hi Scott,

Omni is wondering if you could be more specific on what you are looking for in the breakdown?

Thank you!
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermesen, Scott <shermesen@donohue-associates.com>
Sent: Tuesday, May 2, 2023 10:47
To: Karley Krupp <kkrupp@cdsmith.com>
Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Would it be possible to get itemized costs for the Coatings in Omni's quote?

Thanks,

Scott S. Hermesen, PE | Donohue & Associates, Inc.
HOV WWTF Resident Project Representative
D & M 920.366.4179

From: Karley Krupp <kkrupp@cdsmith.com>
Sent: Friday, April 28, 2023 11:12 AM
To: Hermesen, Scott <shermesen@donohue-associates.com>
Cc: Wood, Christine <cwood@donohue-associates.com>; Holzem, Ryan <rholzem@donohue-associates.com>; Nick Beil <nbeil@cdsmith.com>
Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

Hi Scott,

Please see RFP 008 pricing, attached. Let me know if there are any questions.

Thank you,
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermsen, Scott <shermesen@donohue-associates.com>
Sent: Tuesday, April 18, 2023 4:07 PM
To: Nick Beil <nbeil@cdsmith.com>; Karley Krupp <kkrupp@cdsmith.com>
Cc: Brian Helminger - HOV (Brian.Helminger@hvmsd.org) <Brian.Helminger@hvmsd.org>; Kevin Skogman <Kevin.Skogman@hvmsd.org>; Wood, Christine <cwood@donohue-associates.com>; Holzem, Ryan <rholzem@donohue-associates.com>
Subject: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Good day Nick and Karley,

Attached is RFP 008, you may have received this one from Ryan, back in December/January. If so, we hadn't seen a cost proposal back yet. The RFP was prepared for the District's request to apply the high-build epoxy flooring around the Flotation Thickener 1 and 2.

Let me know if you have any questions.

Thanks.

Scott S. Hermsen, PE
Resident Project Representative
shermesen@donohue-associates.com
mobile 920 366-4179

Donohue & Associates, Inc.
3311 Weeden Creek Road
Sheboygan, WI 53081
office 920 208-0296
direct 920 803-7415
www.donohue-associates.com

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DATE: December 16, 2022

TO: Mr. Nick Beil
C.D. Smith Construction Co., Inc.
125 Camelot Drive
Fond du Lac, WI 54935

3311 WEEDEN CREEK ROAD

SHEBOYGAN, WI 53081

CONTRACT: Heart of the Valley Metropolitan Sewerage District
Wastewater Treatment Facility
Effluent Filtration Improvements

PHONE 920.208.0296

FAX 920.208.0402

DONOHUE PROJECT NO.: 13649

SUBJECT: Request for Proposal Number 008 — Thickener and Filter Room Floor

Nick,

This Request for Proposal (RFP) is being prepared to apply high-build epoxy flooring around Flotation Thickener 1 and 2 in the Sludge Handling and Filtration Building (Structure 060) to match the new high build epoxy flooring being installed in the Thickener and Filter Room. The high build epoxy application should be applied such that the entire area is consistent. Provide Coating System 5 to precast concrete double tee ceiling and Coating System 4 for beams and columns at Flotation Thickener 1 and 2. Provide Coating System 1 for CMU walls and Coating System 4 for concrete columns from Elevation 631.5 to underside of ceiling at Flotation Thickener 1 and 2. See attached Drawing 060-A-7.

Attachments:

Specifications 09 67 50
Specifications 09 96 00
Drawings 060-A-7

Please provide a detailed cost proposal, including labor hours, cost of labor, subcontractor costs (also broken down into labor hours, labor cost, and material costs), and supporting vendor pricing information.

All Work herein shall be in accordance with the Project Manual.

Please contact me if you have any questions in regard to this request for proposal.

Sincerely,

A handwritten signature in blue ink that reads 'Ryan M. Holzem'.

Ryan Holzem, P.E.,
Project Engineer

SECTION 09 67 50
HIGH-BUILD EPOXY COATINGS

PART 1 – GENERAL

1.01 SUMMARY

- A. High-build coating system consisting of primer/low modulus binder followed by two coats of 100% solids epoxy bodycoat, chemical and abrasive resistant, two component, high-build, epoxy coating system.
- B. Coat concrete surfaces as noted on Drawings and specified herein.

1.02 REFERENCES

- A. SSPC: Society for Protective Coatings

1.03 SUBMITTALS

A. Product Data:

- 1. Manufacturer's literature including application recommendations and generic makeup of coating system.

B. Samples:

- 1. Actual color samples available for coating system. Submit, for verification purposes, 4-inch square samples of each type of colored high-build epoxy floor coating required, applied to a rigid backing, in color and finish indicated.
- 2. For initial selection of colors and finishes, submit manufacturer's color charts showing full range of colors and finishes available.

C. Miscellaneous:

- 1. One copy of manufacturer's Safety Data Sheets (SDS), for coating, to Engineer's field office for information. Contractor shall post copy of SDS on Site at all times coating is in progress.
- 2. System Warranty.

D. Submit in accordance with Section 01 33 00.

1.03 QUALITY ASSURANCE

A. Manufacturer Qualifications:

- 1. Manufacturer shall have a minimum three years experience providing epoxy based coatings
- 2. Manufacturer shall be a primary blender of epoxy product with proprietary formulations and capacity to provide field technical services as required.

B. Applicator Qualifications:

- 1. Application subcontractor shall be approved by the manufacturer.
- 2. Lead person on site shall be approved by the manufacturer.

1.04 DELIVERY, STORAGE, AND HANDLING

- A. Deliver product in manufacturer's original containers.
- B. Store product in warm dry condition.
- C. Replace product damaged by shipment, weather, or job conditions.

1.05 PROJECT/SITE CONDITIONS

- A. Schedule pre-installation conference to review installation schedule, shut down and restricted access procedures. Include Owner's Representative and Contractor's Superintendent.
- B. Environmental Requirements:
 - 1. Dry-heat, de-humidify, and ventilate areas to obtain conditions recommended by coating manufacturer.
 - 2. Relative humidity conditions as specified by coating manufacturer shall be adhered to.
 - 3. No unprotected, unheated exterior coating shall be undertaken when cold, damp, foggy, or rainy weather appears probable.
 - 4. Maintain manufacturer's environmental requirements until coating is fully cured.
- C. Inspect surface preparation, application procedures, and review proposed dry film thickness at each installation location.
- D. Ambient installation temperature must be above 60°F for a period extending from 72 hours before, during and after floor installation. Concrete to receive surfacing shall have cured for at least 28 days and shall have been free of water for at least 7 days.
- E. Dew Point: Substrate temperature must be minimum of 5 degrees above dew point prior to, during or up to 24 hours after application of flooring system.
- F. Assure ventilation of enclosed spaces and illumination is adequate for installation.
- G. Assure no personal property is within spray fly pattern during installation of spray components.
- H. Coating shall be tack free within 4 hours of application, and shall be cured and ready to be put into service in not more than 24 hours after application.

1.06 WARRANTY

- A. Manufacturer shall warranty in writing the coating system against defects in material and workmanship for a period of one year.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Key #625 High-Build Epoxy Coating System by Key Resin Company.
- B. Or Approved Equal.

2.02 MATERIALS

A. System Overview

1. The coating system shall be Key High-Build Coating System using Key #502 Primer/Low Modulus Binder (or equal), plus two coats of Key #625 100% Solids Epoxy Coating Bodycoat (or equal). This system shall be applied over a clean, vacuum blasted substrate.
 2. Prior to system application, all control joints and cracks are to be treated with semi-rigid epoxy joint filler and rigid epoxy crack filler respectively as described in the execution section.
 3. The finished floor system shall be a minimum 20 - 30 mils in thickness, dense, nonporous and have a gloss finish with light non-skid texture matching approved sample.
- B. The rigid epoxy to be used for crack treatment shall be Key #730, Key #715 Crack Filler or another epoxy approved by Manufacturer. The semi-rigid epoxy to be used for control joint filler shall be Key #780 Joint Filler (or equal).

2.03 EQUIPMENT

- A. Provide spray equipment suitable for use with products specified.

2.04 ACCESSORIES

- A. Use primer specified by the manufacturer for the individual application.
- B. Provide cant strips as required.
- C. Provide closed cell backer rod in expansion joints as required.
- D. Provide joint taping coat as required.
- E. Provide concrete base coat as required.
- F. Provide joint sealant and filler as required.
- G. Provide spall repair material as required.

2.05 MIXES

- A. Mix product in accordance with manufacturer's written instructions.
- B. Color shall be as selected by Owner.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine the areas and conditions under which Work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work. Materials

removed and replaced to correct defects due to Work placed on unsuitable surfaces shall be at Contractor's expense.

3.02 SURFACE PREPARATION

- A. Provide clean sound substrate.
- B. Prepare concrete surface preparation shall be by grinding only.
- C. Install joint taping coat over construction and contraction joints.
- D. Random cracks wider than 1/16 inch:
 - 1. V-groove to depth of 3/8 inch and top width of 3/8 inch.
 - 2. Install sealant and joint taping coat.
- E. Expansion joints:
 - 1. Cut shoulders plumb.
 - 2. Install backer rod after priming joint.
 - 3. Install sealant and joint taping coat where required.
- F. Spalls:
 - 1. Cut shoulders plumb.
 - 2. Fill with suitable aggregate and install spall repair material to level of adjacent concrete.
- G. Remove ponded water and ice.
- H. Mask protected surfaces prior to spray applications.

3.03 APPLICATION

A. General

Apply each component of the Epoxy/Urethane Coating System in compliance with manufacturer's installation instructions including mixing and application methods, recoat windows, cure times and environmental restrictions. The system is to be applied directly over all non-expansion joints and cracks that have been treated as previously described. Material applied over properly treated expansion joints, control joints, or moving cracks is subject to cracking or other physical stress if there is movement in the joint or crack.

B. Cracks and Non-Expansion Joints

- 1. Cracks less than 1/16" wide after surface preparation shall be filled with neat, rigid epoxy Key #502 (or equal) or other resin approved by Manufacturer, mixed and applied as recommended by the manufacturer's printed instructions. All treated cracks are to be sanded prior to applying primer. Non-Expansion Control (Contraction) Joints shall be routed and filled with semi-rigid epoxy Key #780 (or equal).
- 2. Those cracks larger than 1/16" wide shall be routed and filled with rigid epoxy Key #730, Key #715 (or equal) or other resin approved by Manufacturer, mixed and applied as recommended by the manufacturer's printed instructions.

C. Epoxy Primer

Apply epoxy primer Key #502 (or equal) by squeegee and back roll at the rate of 250 square feet per gallon to thoroughly wet surface but taking care not to "pond" the material. If using alternate primer or moisture vapor control system approved by Manufacturer, follow mixing and application instructions.

D. Coating Application

1. Apply 2 coats of Key #625 (or equal) at a minimum total thickness of 16 mils each coat. 100 square feet per gallon is required coverage for 100% solids epoxy coating to achieve 16 mils thickness.
2. Follow manufacturer's instructions for mixing and application techniques.
3. Add during mixing or broadcast non-skid grit into epoxy coating application to provide required textured finish if specified.

E. Screen or reapply primer if recoat window has been exceeded.

F. Retouch coat by filling low spots or areas with inadequate thickness.

G. Spray additional base coats to achieve 30 mils DFT. Retouch as required.

3.04 FIELD QUALITY CONTROL

- A. Components of coating may be color-coded. Assure that each subsequent coat completely hides prior coating.
- B. Perform dry film thickness tests as required.
- C. Maintain spray and other installation equipment in proper operating condition throughout installation.
- D. Provide reserve equipment as required.

3.05 CLEANING

- A. Clean spills and oversprays as they occur.
- B. Consult manufacturer's literature and SDS sheets for proper cleaning products and methods.

3.06 PROTECTION

- A. Cure High-Build Epoxy Coating System materials in compliance with manufacturer's directions, taking care to prevent contamination during stages of the application and prior to completion of the curing process.
- B. Protect installed work until accepted by Owner.

END OF SECTION

SECTION 09 96 00
HIGH-PERFORMANCE COATINGS

PART 1 – GENERAL

1.01 SUMMARY

A. Coating of surfaces as noted on the Drawings and as specified herein, including:

1. New and existing surfaces described in Finish Schedules and notes on Drawings.
2. Interior masonry wall surfaces.
3. Exposed underside of precast concrete roof and floor members.
4. Exposed interior and exterior ferrous metal, ductile iron, or cast iron piping, regardless of factory-applied finish.
5. Exposed interior and exterior structural steel surfaces.
6. Exterior and interior equipment, pumps, valves, motors, etc. and all appurtenances.
7. Color-coded equipment and piping above ceilings.
8. Concrete tank and channel surfaces only where noted on drawings.
9. Copper piping and galvanized steel piping and conduit mounted to coated surfaces.
10. Exposed interior and exterior galvanized steel conduit and supports.
11. Steel doors and frames.
12. Existing surfaces remodeled or damaged during construction which presently have a finish. Refinish surrounding areas as required so touch-up not visible from 6 feet away.
13. Existing surfaces exposed by removals where adjacent surface has a finish. Finish areas as required so touch-up not visible from 6 ft away.
14. Touchup and finish coatings on Owner-furnished equipment, material, and appurtenant items.

B. Labeling and directional arrows on piping, equipment, valves, and ducts whether coated or not coated is specified in Section 40 05 05.

C. Do not coat the following unless specifically noted otherwise:

1. Factory-finished electrical motor control center (MCC), main instrument panels (MIP), flow indicators, and related equipment.
2. Moving parts of operating units, electrical parts, linkages, sensing devices, and motor shafts.
3. Buried equipment and piping.
4. Surfaces above ceilings.
5. Factory-finished trim.
6. Stainless steel, chrome plate, copper, bronze, galvanized surfaces, and similar finished materials.
7. Aluminum ductwork or aluminum faced insulation.
8. Aluminum louvers and trim.
9. Concrete tanks.
10. Plastic and FRP piping, equipment, and ductwork.

D. Do not coat over any code-required labels such as UL and Factory Mutual, or any equipment identification, performance rating, name, or nomenclature plates.

E. Equipment manufacturers are responsible for surface preparation and coating of equipment, motors, and appurtenances. Equipment to be coated and coating system is identified in the equipment specification sections.

1.02 DEFINITIONS

A. Definitions as used in Finish Schedule shown on Drawings and Coating Schedule included herein.

1. Coatings: Paint or heavy duty finishes for use on surfaces subject to interior and exterior exposure, submergence, high moisture, splash, or chemical environment, including primers, sealers, fillers, and intermediate and finished coats.
2. Submerged P: Surfaces submerged in potable water plus 1 foot-6 inches above high water level.
3. Submerged NP: Surfaces submerged in non-potable liquid plus 1 foot-6 inches above high liquid level.
4. First Coat: Field primer, factory primer, or shop primer. When only one coat is required, first coat is the finished coat.
5. Second, Third, or Intermediate Coats: Successive finished coats applied over first coat.
6. DFT: Dry film thickness (mils/coat).
7. sfpg: Square feet per gallon (per coat).

1.03 SUBMITTALS

A. Product Data:

1. Manufacturer's literature including application recommendations and generic makeup for each coating scheduled.
2. Factory or shop-applied primer manufacturer's literature including application recommendations and generic makeup shall be submitted with all material and equipment submittals. All primers shall conform to the requirements of this Section.

B. Samples:

1. Actual color samples available for each coating scheduled.

C. Miscellaneous:

1. Schedules:
 - a. Schedule of proposed coating systems within 60 days after Notice to Proceed.
 - b. Schedule of proposed coating systems shall contain all information as indicated in Coating Schedule included herein.
2. Submit one copy of manufacturer's Safety Data Sheets (SDS), for each type of coating, to Engineer's field office for information. Contractor shall post copy of SDS on Site at all times coating is in progress.

D. Submit in accordance with Section 01 33 00.

1.04 QUALITY ASSURANCE

A. Regulatory Requirements:

1. All coatings shall conform to OSHA requirements for allowable exposure to lead and other hazardous substances.
2. All coatings in contact with potable water or within potable water reservoirs shall be NSF 61 approved.

B. Applicator Qualifications:

1. Engage an experienced applicator who has successfully completed coating system applications similar in material and extent to those indicated.

C. Single-Source Responsibility:

1. Provide coating material produced by same manufacturer for each system.

1.05 DELIVERY, STORAGE, AND HANDLING

- A. Materials shall be delivered to site in original containers with labels intact and seals unbroken.
- B. Protect and heat or cool material storage location to maintain temperature ranges recommended by coating manufacturers, but not less than 55°F.
- C. Avoid danger of fire. Oily rags and waste must be removed from buildings each night or kept in appropriate metal containers. Provide fire extinguishers of type recommended by coating manufacturer's in areas of storage and where finishing is occurring. Allow no smoking or open containers of solvent.
- D. Empty containers shall have labels canceled and clearly marked as to use.

1.06 PROJECT / SITE CONDITIONS

A. Environmental Requirements:

1. Dry-heat and ventilate areas to obtain conditions recommended by coating manufacturer.
2. Relative humidity conditions as specified by coating manufacturer shall be adhered to.
3. No unprotected, unheated exterior coating shall be undertaken when cold, damp, foggy, or rainy weather appears probable, nor when the temperature of the substrate is below 55°F, unless approved in writing by coating manufacturer.
4. Maintain manufacturer's environmental requirements until coating is fully cured.
5. Apply no coating in areas where dust is being generated.
6. Testing and disposal of any waste and coating shall be the responsibility of the Contractor.

B. Protection:

1. Drop cloths shall be provided in all areas where coating is done to fully protect other surfaces.
2. Remove hardware, accessories, plates, lighting fixtures, and similar items or provide protection by masking. Upon completion, replace items or remove protection and clean.
- C. It is the intent of this Section that all ferrous metal items scheduled for coating be shop-primed. If items are not shop-primed, surfaces shall be prepared and coated in the field as specified.
- D. Upon Substantial Completion, remaining unused material will become property of Owner. Seal material as required for storage, mark contents with color, type, location, and shelf life, and store on Site where required by Owner. Provide minimum of two gallons of each system component and color used.

PART 2 – PRODUCTS

2.01 MANUFACTURERS

- A. Tnemec.
- B. Sherwin-Williams

2.02 MATERIALS

- A. Coatings shall meet surface burning characteristics as required by code and established by ASTM E84.
- B. Coating products listed in the Coating Schedule, are set as a standard of quality. Coatings of substitute manufacturers shall meet or exceed the characteristics of the products listed as established by the following ASTM standards; B117, C307, C413, C579, C580, C868, D870, D1014, D1653, D2047, D2240, D2370, D2794, D3363, D4060, D4141, D4541, D4585, D4587, and G85.
- C. If the Contractor wishes to offer a substitute to the products specified, the request for a substitute shall conform to the requirements of Section 01 61 00.
- D. The Contractor and top coat coating manufacturer shall verify the compatibility of their products with the various primers used on shop primed materials and equipment.

2.03 COLORS

- A. Color shall be formed of pigments free of lead, lead compounds, or other materials which might be affected by presence of hydrogen sulfide or other gases likely to be present at Site.
- B. Colors shall be as selected by Owner. System color-coding shall be as specified in Section 40 05 05.
- C. Coat access doors of electrical distribution panels and grilles to match color of adjacent wall or ceiling surfaces.
- D. In areas scheduled for finishing, coat exposed piping, conduit, and ducts to match color of adjacent or near surfaces, except for color-coding.
- E. In areas where existing surfaces are finished, coat new exposed piping, conduit, and ducts to match color of adjacent or near surfaces, except for color-coding.
- F. Equipment Colors:
 - 1. Equipment includes pumps, blowers, valves, flow meters, etc, and associated motors, structural supports, hangers, and attached portions of electrical conduit, and other associated components.
 - 2. Color of non-submerged equipment, including equipment with a manufacturer-applied finish coat, shall be same color as piping equipment serves; see Section 40 05 05.
 - 3. Color of submerged equipment can be manufacturer's standard color.

2.04 THINNING, MIXING, AND TINTING

- A. Where thinning is necessary, only the products of the manufacturer furnishing the coating will be allowed. All such thinning shall be done in strict accordance with coating manufacturer's recommendations.
- B. Mix in accordance with manufacturer's recommendations.
- C. Each coat shall be slightly darker than preceding coat, unless otherwise noted. Tint undercoats similar to finish coat.

PART 3 – EXECUTION

3.01 EXAMINATION

- A. Examine the areas and conditions under which Work of this Section will be performed. Correct conditions detrimental to timely and proper completion of the Work.
- B. Materials removed and replaced to correct defects due to Work placed on unsuitable surfaces shall be at Contractor's expense.

3.02 SURFACE PREPARATION

A. General:

- 1. All surfaces to be coated shall be prepared as specified herein and in accordance with coating manufacturer's recommendations. The object shall be to obtain a uniform, clean, and dry surface.
- 2. Quality of surface preparation described herein is considered a minimum. If coating manufacturer requires a higher degree of preparation, comply with coating manufacturer's recommendations.
- 3. Where surface dryness is questioned, test with dampness indicating instrument. Do not apply coatings over surfaces where moisture content exceeds that permitted by coating manufacturer.
- 4. Shop primed surfaces shall be scarified before applying top coats. Conform to top coat manufacturers recommendations.
- 5. If recoat time between application of primer and second coat or between top coats is exceeded, scarify surface before applying coatings. Conform to top coat manufacturers recommendations.
- 6. Workmanship for surface preparation shall conform to the following SSPC specifications:
 - a. Solvent Clean: SP-1.
 - b. Hand Tool Cleaning: SP-2.
 - c. Power Tool Cleaning: SP-3.
 - d. White Metal Blast Cleaning: SP-5.
 - e. Commercial Blast Cleaning: SP-6.
 - f. Brush-Off Blast Cleaning: SP-7.
 - g. Pickling: SP-8.
 - h. Near-White Blast Cleaning: SP-10.
 - i. Power Tool Cleaning to Bare Metal: SP-11.
 - j. Surface Preparation by Water Jetting: SP-12.

B. Ferrous Metal:

1. Ferrous metal primed in the shop shall have all rust, dust, scale, and other foreign substances removed by abrasive cleaning conforming to SSPC SP-10. Cleaned metal shall be primed or pretreated immediately after cleaning to prevent new rusting.
2. Ferrous metal not primed in the shop shall be abrasive blast cleaned in the field prior to application of primer, pretreatment, or coating. Blast cleaning shall conform to SSPC SP-10 for submerged service. Blast cleaning shall conform to SSPC SP-6 for non-submerged service.
3. Prior to finish coating, primed areas that are damaged shall be cleaned and spot primed.

C. Concrete:

1. Concrete must be at least 28 days old and shall pass the overnight visqueen test for dryness before applying coating.
2. Repair surface defects / voids as recommended by coating manufacturer.
3. Concrete surfaces, including precast concrete, to be coated shall be cleaned of all form oil, curing compound, laitance, and other foreign substances.
4. Surfaces shall be brush-off abrasive blast cleaned in order to prepare the surface for adherence of the coating system. Acid etching will be allowed only where brush blasting is impractical. Resulting surface shall have a toothed or grainy texture.
5. After cleaning, surfaces shall be washed and all dust, sand, and loose particles removed by vacuuming. If Contractor elects to blow off the surfaces with air, it shall be oil-free air and the method shall conform to OSHA requirements.

D. Galvanized Metal:

1. Where galvanized metal items are not submerged or buried, they shall be abrasive sweep blast cleaned and then solvent cleaned in accordance with SSPC SP-1.

E. Plastic and FRP:

1. Where scheduled to coated, plastic and FRP shall be lightly sanded and then solvent cleaned in accordance with SSPC SP-1.

F. Aluminum:

1. Where scheduled to coated, aluminum shall be lightly sanded and then solvent cleaned in accordance with SSPC SP-1.

G. Masonry:

1. Remove loose grit and mortar.
2. Remove grease, oil, dirt, salts, or other chemicals, or other foreign substances by solvent, detergent, or other suitable cleaning methods.

H. Existing Surfaces:

1. Remove and replace or mask attachments if attachments are not to be coated.
2. Remove surface contamination such as oil, grease, loose or defective coatings, mill scale, dirt, rust, mold, mildew, mortar, efflorescence, and sealers to assure sound bonding to tightly adhered old coatings. Glossy surfaces of old coatings shall be cleaned and dulled before overcoating.
3. Sand surfaces and feather edges where chips have occurred.
4. Cut out and fill cracks or other defects to match adjacent surface.

5. Exact nature of existing coatings is not known. Check compatibility of new coating by application to small area prior to starting coating. If lifting or other problems occur, notify Engineer for direction.
6. Comply with new coating manufacturer's recommendations for preparation of previously coated surfaces.
7. Prepare surfaces subject to submerged service as specified for new surfaces.

3.03 APPLICATION

- A. Surfaces shall be dry at time of application.
- B. The minimum surface temperature shall be 55°F and rising.
- C. Apply in strict accordance with manufacturer's recommendations by brush, roller, spray, or other application method. The number of coats and thickness required is the same regardless of application method.
- D. Each coat shall be allowed to dry in accordance with manufacturer's requirements. Drying time shall be construed to mean "under normal conditions". Where conditions other than normal exist, because of weather or because of confined space, longer times will be necessary. Units shall not be put in service until coatings are thoroughly dry and cured.
- E. Surfaces to be coated that will be inaccessible in the completed work shall receive the final coat before enclosure.
- F. Coatings shall be applied to provide an opaque, smooth surface of uniform finish, color, appearance, and coverage. Cloudiness, spotting, holidays, laps, brush marks, runs, sags, or other surface imperfections will not be acceptable. Areas cut-in by brush prior to rolling shall have uniform appearance in comparison with adjoining surfaces.
- G. Make edges of coating adjoining other materials or colors sharp and clean without overlapping.
- H. Concrete block walls shall be back-rolled in conjunction with application of sprayed prime coat.
- I. Crevices and other hard-to-apply areas shall be back-rolled/back-brushed in conjunction with application of field applied prime coat or intermediate coat. This includes, but is not limited to: between pipe flanges, pipe flange/barrel joints, equipment fittings, and other narrow openings.
- J. Finish edges of doors as specified for faces. Apply first finish coat on edges before fitting. After doors fitted and hung apply second finish coat.
- K. Manufacturer-Applied Coatings:
 1. Repair abraded areas on factory-finished items in accordance with equipment manufacturer's recommendations.
 2. Blend repaired areas into original finish.

3.04 FIELD QUALITY CONTROL

- A. Examination of Work on Site by coating manufacturer's representative shall be preformed when requested by Engineer.
- B. Sampling of Materials:

1. Engineer reserves the right to select unopened containers of materials furnished for the Project and have the materials tested at an independent laboratory. Owner will pay for first tests.
2. Retests of rejected materials and tests of replacement materials shall be paid for by Contractor.
3. Remainder of contents of containers not required for testing will be returned to Contractor.

C. Coverage:

1. Before beginning Work, finish one complete room, space, surface, and item of each color scheme required, showing selected colors, finished texture, material, and workmanship. After approval, sample room, space, surface, and item shall serve as standard for similar Work.
 2. If coverage is not acceptable to Engineer, Engineer reserves the right to require additional application of coating at no extra cost to Owner.
- D. Work at Site, where coat of material is to be applied, shall be observed by Engineer after surface has been prepared and before application of specified prime coat and each succeeding coat, otherwise no credit for applied coat will be given and Contractor automatically assumes responsibility to recoat Work in question. Surfaces coated without such observation shall be abrasive blast cleaned, reprepared, and recoated at no addition cost to Owner. Notify Engineer when surface preparation complete, coat applied, and when ready for inspection to comply with above.

3.05 FINAL TOUCH-UP AND CLEANING

- A. Prior to Substantial completion, examine coated surfaces and retouch or refinish surfaces to leave in condition acceptable to Engineer.
- B. Remove masking, coatings, and other material from floors, glass, and other surfaces not scheduled to be coated.

3.06 COATING SCHEDULE

- A. Scheduled thickness or coverage rate is minimum as recommended by manufacturer. Manufacturer's recommendations shall be followed, but in no case shall the thickness or coverage rate be less than scheduled.
- B. Coatings shall conform to the following schedule and coating manufacturer's recommendations. Examples of surfaces to be coated may not be all inclusive.

COATINGS SCHEDULE

System No.	Generic Type	Application	Tnemec	Sherwin-Williams
1	Polyamidoamine Epoxy	Interior Concrete Block Walls / Satin	First Coat – Series N69 @ 105 sfpg, sprayed and backrolled Second Coat – Series N69 @ 150 sfpg Third Coat – Series N69 @ 165 sfpg	First Coat – Macropoxy 646 @ 90 sfpg, sprayed and backrolled Second Coat – Macropoxy 646 @ 130 sfpg Third Coat – Macropoxy 646 @ 140 sfpg
4	Polyamidoamine Epoxy	Interior Concrete Walls, Columns / Satin	First Coat – Series N69 @ 115 sfpg Second Coat – Series N69 @ 190 sfpg	First Coat – Macropoxy 646 @ 100 sfpg Second Coat – Macropoxy 646 @ 160 sfpg
5	Polyamidoamine Epoxy	Exposed Concrete Ceilings / Satin	First Coat – Series N69, thinned 10%, @ 115 sfpg Second Coat – Series N69 @ 190 sfpg	First Coat – Macropoxy 646, thinned 10%, @ 100 sfpg Second Coat – Macropoxy 646 @ 160 sfpg
6	Epoxy Modified Mortar - Polyamidoamine Epoxy	Concrete / Submerged NP / Satin	Filler – Series 218 as needed to fill voids and bugholes First Coat – Series N69, thinned 10%, @ 115 sfpg Second Coat – Series N69 @ 190 sfpg Third Coat – Series N69 @ 190 sfpg	Filler – Dura-Plate 2300 as needed to fill voids and bugholes First Coat – DuraPlate 235, thinned 10%, @ 100 sfpg Second Coat – DuraPlate 235 @ 160 sfpg Third Coat – DuraPlate 235 @ 160 sfpg
7	Modified Aromatic Polyurethane - Polyamidoamine Epoxy	Ferrous Metal, Cast Iron, Ductile Iron / Submerged NP / Satin	First Coat – Series 1 @ 3 mils DFT, touch-up primer prior to second coat Second Coat – Series N69 @ 5 mils DFT Third Coat – Series N69 @ 5 mils DFT	First Coat – Corothane I Mio-Zinc @ 3 mils DFT, touch-up primer prior to second coat Second Coat – DuraPlate 235 @ 5 mils DFT Third Coat – DuraPlate 235 @ 5 mils DFT
8	Modified Aromatic Polyurethane - Polyamidoamine Epoxy	Ferrous Metal, Cast Iron, Ductile Iron / Interior Non-Submerged / Satin	First Coat – Series 1 @ 3 mils DFT, touch-up primer prior to second coat Second Coat – Series N69 @ 5 mils DFT Third Coat – Series N69 @ 5 mils DFT	First Coat – Corothane I Mio-Zinc @ 3 mils DFT, touch-up primer prior to second coat Second Coat – Macropoxy 646 @ 5 mils DFT Third Coat – Macropoxy 646 @ 5 mils DFT
9	Modified Aromatic Polyurethane - Polyamidoamine Epoxy – Aliphatic Acrylic Polyurethane	Ferrous Metal, Cast Iron, Ductile Iron / Exterior Non-Submerged / Gloss	First Coat – Series 1 @ 3 mils DFT, touch-up primer prior to second coat Second Coat – Series N69 @ 5 mils DFT Third Coat – Series 1094 @ 3 mils DFT	First Coat – Corothane I Mio-Zinc @ 3 mils DFT, touch-up primer prior to second coat Second Coat – Macropoxy 646 @ 5 mils DFT Third Coat – Hi-Solids Polyurethane Gloss @ 3 mils DFT
10	Polyamide Epoxy – Polyamidoamine Epoxy	Doors, Frames, Motors and other Equipment with Non-Epoxy Primer / Interior / Satin	Lightly Hand Sand Solvent Clean SP-1 First Coat – Series 27-1255 Beige @ 3 mils DFT Second Coat – Series N69 @ 5 mils DFT	Lightly Hand Sand Solvent Clean SP-1 First Coat – Recoatable Epoxy Primer Tan @ 3 mils DFT Second Coat – Macropoxy 646 @ 5 mils DFT

11	Polyamide Epoxy – Aliphatic Acrylic Polyurethane	Doors, Frames, Motors and other Equipment with Non-Epoxy Primer / Exterior / Gloss	Lightly Hand Sand Solvent Clean SP-1 First Coat – Series 27-1255 Beige @ 3 mils DFT Second Coat – Series 1094 @ 3 mils DFT	Lightly Hand Sand Solvent Clean SP-1 First Coat – Recoatable Epoxy Primer Tan @ 3 mils DFT Second Coat – Hi-Solids Polyurethane Gloss @ 3 mils DFT
12	Polyamidoamine Epoxy	Galvanized Metal, PVC / Non-Submerged / Interior / Satin	First Coat – Series N69-1255 Beige @ 2 mils DFT, touch-up primer prior to second coat Second Coat – Series N69 @ 3 mils DFT Third Coat – Series N69 @ 3 mils DFT	First Coat – Macropoxy 646 – SW4004 @ 2 mils DFT, touch-up primer prior to second coat Second Coat – Macropoxy 646 @ 3 mils DFT Third Coat – Macropoxy 646 @ 3 mils DFT
13	Polyamidoamine Epoxy – Aliphatic Acrylic Polyurethane	Galvanized Metal, PVC / Non-Submerged / Exterior / Gloss	First Coat – Series N69-1255 Beige @ 2 mils DFT, touch-up primer prior to second coat Second Coat – Series N69 @ 3 mils DFT Third Coat – Series 1094 @ 3 mils DFT	First Coat – Macropoxy 646 SW4004 @ 2 mils DFT, touch-up primer prior to second coat Second Coat – Macropoxy 646 @ 3 mils DFT Third Coat – Hi-Solids Polyurethane Gloss @ 3 mils DFT
14	Acrylic Emulsion	Insulation on Piping and Ductwork / Matte	First Coat – Series 1026 @ 200 sfpg Second Coat – Series 1026 @ 200 sfpg	First Coat – DTM Primer/Finish @ 200 sfpg Second Coat – DTM Primer/Finish @ 200 sfpg
20	Polyamide Epoxy Coal Tar	Dissimilar Metal Protection / Semi-Gloss	Scarify the Surface, SP-1 First Coat – Series 46H-413 @ 20 mils DFT	Scarify the Surface, SP-1 First Coat – HiMil Sher-Tar @ 20 mils DFT
21	Polyamine Epoxy – Polyamine Novolac Epoxy	Chemical Containment / Concrete / Interior / Gloss	Filler – Series 218 as needed to fill voids and bugholes First Coat – Series 201 @ 200 sfpg Second Coat – Series 282 @ 200 sfpg, hand broadcast anti-skid aggregate onto floor while still wet Third Coat – Series 282 @ 200 sfpg	Filler – Dura-Plate 2300 as needed to fill voids and bugholes First Coat – Corobond 100 @ 200 sfpg Second Coat – Cor-Cote EN 7000 @ 200 sfpg, hand broadcast anti-skid aggregate onto floor while still wet Third Coat – Cor-Cote EN 7000 @ 200 sfpg
22	Aromatic Urethane – Polyamidoamine Epoxy	Ferrous Metal / Interior Non-Submerged / Submerged NP / Satin (Do Not Use on Ductile Iron)	First Coat – Series 1 @ 3 mils DFT Second Coat – Series N69 @ 5 mils DFT Third Coat – Series N69 @ 5 mils DFT	First Coat – Corothane I Mio-Zinc @ 3 mils DFT Second Coat – DuraPlate 235 @ 5 mils DFT Third Coat – DuraPlate 235 @ 5 mils DFT
23	Aromatic Urethane – Polyamidoamine Epoxy – Aliphatic Acrylic Polyurethane	Ferrous Metal / Exterior Non-Submerged / Gloss (Do Not Use on Ductile Iron)	First Coat – Series 1 @ 3 mils DFT Second Coat – Series N69 @ 5 mils DFT Third Coat – Series 1094 @ 3 mils DFT	First Coat – Corothane I Galvapac @ 3 mils DFT Second Coat – Macropoxy 646 @ 5 mils DFT Third Coat – Hi-Solids Polyurethane Gloss @ 3 mils DFT

Foot Notes:

1. Series N69 may be substituted for Series 1.

END OF SECTION

Designed By	SRW
Drawn By	SRW
Checked By	CLS
Approved By	RMH
Filename	060AP1.DWG
Project No.	13649
Project Date	02/16/2022

Karley Krupp

From: Rick Edinger <redinger@omnigp.com>
Sent: Thursday, May 4, 2023 8:18 AM
To: Karley Krupp
Subject: FW: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Totally understandable question.

The scaffolding installation, rental and removal attributes to the difference.

I have successfully performed many complex projects with this vendor and am confident that they are providing the safest and best solution to decking out and working over live sewage tanks.

The cost from API scaffolding is roughly \$10,000 with additional labor required of Omni to assist with the installation.

Hope that helps with the explanation.

Thank you,
Rick Edinger
PM Paint



Omni Glass & Paint, LLC

3530 Omni Drive
Oshkosh, WI 54904
920-636-5691

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From: Karley Krupp <kkrupp@cdsmith.com>
Sent: Wednesday, May 3, 2023 2:10 PM
To: Rick Edinger <redinger@omnigp.com>
Subject: [EXTERNAL] FW: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: This email originated from outside of the organization. Do not click links or open attachments unless you recognize the sender and know the content is safe.

Hi Rick,

Please see the Engineers response to providing an itemized breakdown, below. Let me know your thoughts on this.

Thank you!
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermesen, Scott <shermesen@donohue-associates.com>

Sent: Tuesday, May 2, 2023 2:04 PM

To: Karley Krupp <kkrupp@cdsmith.com>

Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Sorry about that, I sent it out before adding in some additional info.

As for Omni, bid coating cost was around \$5/sf, current estimate is around \$7.08/sf. Just checking that costs went up that much.

Thanks,

Scott S. Hermesen, PE | Donohue & Associates, Inc.
HOV WWTF Resident Project Representative
D & M 920.366.4179

From: Karley Krupp <kkrupp@cdsmith.com>

Sent: Tuesday, May 2, 2023 12:25 PM

To: Hermesen, Scott <shermesen@donohue-associates.com>

Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

Hi Scott,

Omni is wondering if you could be more specific on what you are looking for in the breakdown?

Thank you!
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermesen, Scott <shermesen@donohue-associates.com>
Sent: Tuesday, May 2, 2023 10:47
To: Karley Krupp <kkrupp@cdsmith.com>
Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Karley,

Would it be possible to get itemized costs for the Coatings in Omni's quote?

Thanks,

Scott S. Hermesen, PE | Donohue & Associates, Inc.
HOV WWTF Resident Project Representative
D & M 920.366.4179

From: Karley Krupp <kkrupp@cdsmith.com>
Sent: Friday, April 28, 2023 11:12 AM
To: Hermesen, Scott <shermesen@donohue-associates.com>
Cc: Wood, Christine <cwood@donohue-associates.com>; Holzem, Ryan <rholzem@donohue-associates.com>; Nick Beil <nbeil@cdsmith.com>
Subject: RE: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

Hi Scott,

Please see RFP 008 pricing, attached. Let me know if there are any questions.

Thank you,
Karley Krupp

Karley Krupp
Project Manager

920.979.8756 (mobile)
kkrupp@cdsmith.com
www.cdsmith.com



CD. SMITH
CONSTRUCTION



From: Hermsen, Scott <shermesen@donohue-associates.com>
Sent: Tuesday, April 18, 2023 4:07 PM
To: Nick Beil <nbeil@cdsmith.com>; Karley Krupp <kkrupp@cdsmith.com>
Cc: Brian Helminger - HOV (Brian.Helminger@hvmsd.org) <Brian.Helminger@hvmsd.org>; Kevin Skogman <Kevin.Skogman@hvmsd.org>; Wood, Christine <cwood@donohue-associates.com>; Holzem, Ryan <rholzem@donohue-associates.com>
Subject: HOV Filtration Project - RFP 008 High Build Epoxy for Thickener and Filter Room Floor

CAUTION: External Email

Good day Nick and Karley,

Attached is RFP 008, you may have received this one from Ryan, back in December/January. If so, we hadn't seen a cost proposal back yet. The RFP was prepared for the District's request to apply the high-build epoxy flooring around the Flotation Thickener 1 and 2.

Let me know if you have any questions.

Thanks.

Scott S. Hermsen, PE
Resident Project Representative
shermesen@donohue-associates.com
mobile 920 366-4179

Donohue & Associates, Inc.
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Sheboygan, WI 53081
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