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## Product Guide Specification

Specifier Notes: This product guide specification is written according to the Construction Specifications Institute (CSI) 3-Part Format, as described in *The Project Resource Manual—CSI Manual of Practice*.

The section must be carefully reviewed and edited by the Engineer to meet the requirements of the project and local building code. Coordinate this section with other specification sections and the Drawings. Delete all "Specifier Notes" when editing this section.

Section numbers are from *MasterFormat 1995 Edition*, with numbers from *MasterFormat 2004 Edition* in parentheses. Delete version not required.

## SECTION 09900

### HIGH-PERFORMANCE COATINGS FOR WASTEWATER AND NON-POTABLE WATER CONTAINMENT

Specifier Notes: This section covers C.I.M. Industries "CIM 1000 Commercial Industrial Membrane" for non-potable and wastewater applications for concrete, soil and asphalt. The liner is a cold-applied liquid which rapidly cures to form a seamless, abrasion, corrosion, and chemical resistant waterproof lining. Edit this section for application to either concrete or, earthen substrates.

Consult C.I.M. Industries for assistance in editing this section for specific applications.

## PART 1 GENERAL

### 1.1 SECTION INCLUDES

Specifier Notes: Revise the first sentence as required for the specific application.

- A. High-performance linings for [concrete] [asphalt] [earthen] lagoons used for the containment of wastewater. High-performance lining rapidly cures to form a seamless, abrasion resistant, and chemical resistant waterproof liner.

### 1.2 RELATED SECTIONS

Specifier Notes: Edit the following list as required for the project. List other sections with work directly related to the high-performance lining.

09 90 00  
CIM 1000

- A. Section 03300 (03 30 00) – Cast-in-Place Concrete (Cast-in-Place Concrete).
- B. Section 09870 (09 97 13) – Linings for Steel (Steel Lining).
- C. Section 09880 (09 97 23) – Linings for Concrete and Masonry (Concrete and Masonry Lining).
- D. Section 13200 (33 16 00) – Storage Tanks (Water Utility Storage Tank).
- E. Section (33 47 23) – (Sanitary Sewerage Lagoons).

### **1.3 REFERENCES**

- A. ACI 201.1R – Guide for Making a Condition Survey of Concrete in Service.
- B. ASTM C836 – High-Solids Content, Cold Liquid-Applied Elastomeric Waterproofing Membrane for Use with Separate Wearing Course.
- C. ASTM C957 – High Solids Content, Cold-Liquid-Applied Elastomeric Waterproofing Membrane with Integral Wearing Surface.
- D. ASTM D36 – Softening Point of Bitumen (Ring-and-Ball Apparatus).
- E. ASTM D412 – Vulcanized Rubber and Thermoplastic Rubbers and Thermoplastic Elastomers – Tension.
- F. ASTM D624 – Tear Strength of Conventional Vulcanized Rubber and Thermoplastic Elastomers.
- G. ASTM D648 – Deflection Temperature of Plastics Under Flexural Load in the Edgewise Position.
- H. ASTM D751 – Coated Fabrics.
- I. ASTM D822 – Conducting Tests on Paint and Related Linings and Materials using Filtered Open-Flame Carbon-Arc Light and Water Exposure Apparatus.
- J. ASTM D1117 – Evaluation Nonwoven Fabric.
- K. ASTM D1682 – Breaking Load and Elongation of Textile Fabric.
- L. ASTM D2240 – Rubber Property – Durometer Hardness.
- M. ASTM D3786 – Hydraulic Bursting Strength of Knitted Goods and Nonwoven Fabrics: Diaphragm Bursting Strength Tester Method.
- N. ASTM D4060 – Abrasion Resistance of Organic Linings by the Taber Abraser.
- O. ASTM D4258 – Surface Cleaning Concrete for Lining.
- P. ASTM D4259-88 – Abrading Concrete.

- Q. ASTM D4263 – Indicating Moisture in Concrete by the Plastic Sheet Method.
- R. ASTM D4285 – Indicating Oil or Water in Compressed Air.
- S. ASTM E96 – Water Vapor Transmission of Materials.
- T. ICRI 03732 – Selecting and Specifying Concrete Surface Preparation for Sealers, Linings, and Polymers Overlays.
- U. SSPC-SP10/NACE No. 2 – Near-White Blast Cleaning.
- V. SSPC-SP6/NACE No. 3 – Commercial Blast Cleaning.

#### **1.4 SUBMITTALS**

- A. Comply with requirements of Section 01330 (01 33 00) – Submittal Procedures (Submittal Procedures).
- B. Product Data: Submit manufacturer's product data, including surface preparation, application, and curing.
- C. Samples: Submit 3-inch by 1-inch samples for approval by the Engineer.
  - 1. Cured high-performance lining, 60 mils thick.
  - 2. Reinforcing fabric and joint cover sheet.
- D. Applicator's Project References: Submit list of completed project references.
- E. Certification of Applicator's Supervisor: Submit for applicator's supervisor a valid certificate (must not be expired) indicating completion of manufacturer's contractor training program.
- F. Warranty: Submit manufacturer's standard 5 year warranty.

#### **1.5 QUALITY ASSURANCE**

- A. Qualifications:
  - 1. Applicator: Use applicator experienced in the application of the specified high-performance lining for a minimum of 2-years on projects of similar size and complexity. Provide a list of completed projects including project name and location, name of engineer, name of lining manufacturer, and approximate quantity of lining applied.
  - 2. Applicator's Supervisor: Employ a supervisor during all phases of the work that had successfully completed manufacturer's contractor training program.
  - 3. Applicator's Personnel: Employ persons trained for the application of high-performance lining.
- B. Regulatory Requirements: Comply with environmental regulations.

Specifier Notes: Describe requirements for a meeting to coordinate the application of the high-performance lining and to sequence related work.

C. Pre-Application Meeting:

1. Convene a pre-application meeting [ \_\_\_\_ ] weeks before the start of application of the high-performance lining.
2. Require attendance of parties directly affecting work of this section, including the contractor, sub-contractor, engineer, applicator, and manufacturer's representative.
3. Review environmental requirements, materials, protection of adjacent work, surface preparation, application, curing, field quality control, cleaning, and coordination with other work.

## 1.6 DELIVERY, STORAGE, AND HANDLING

A. Delivery:

1. Deliver materials to the site in manufacturer's original, unopened containers and packaging, with labels clearly indicating manufacturer and material.
2. Do not deliver material to site more than one month before use.

B. Storage:

1. Store the material in accordance with manufacturer's instructions.
2. Store materials indoor in an area well ventilated and protected from damage.
3. Do not store material near open flame, sparks, or hot surfaces.
4. Store materials on raised platforms and covered by waterproofing covers.
5. Keep material containers closed.
6. Keep scrim fabric dry.

C. Handling: Protect materials during handling and application to prevent damage.

## 1.7 ENVIRONMENTAL REQUIREMENTS

- A. Do not apply in wet weather or when rain is imminent.
- B. Apply when the surface is a minimum 50 degrees F (10 degrees C) and a minimum of 5 degrees F (3 degrees C) above dew point. Consult manufacturer for application instructions if the ambient or surface temperature is below 50 degrees F (10 degrees F).
- C. Do not apply to porous substrates when substrate or ambient temperatures are rising.
- D. Do not apply to porous substrates when substrate is in direct sunlight.
- E. Do not apply over substrates that are frozen or contain frost.

## 1.8 WARRANTY

- A. Provide a 5-year material and 1-year labor warranty. Obtain material warranty from manufacturer.

## PART 2 PRODUCTS

### 2.1 MANUFACTURER

- A. C.I.M. Industries Inc., 23 Elm Street, Peterborough NH 03458. Phone (603) 924-9481. Toll Free (800) 543-3458. Fax (603) 924-9482.

### 2.2 HIGH-PERFORMANCE LININGS

Specifier Notes: Consult manufacturer for assistance in editing this article for specific applications.

- A. High-performance lining: CIM 1000. Two-component, high solids, elastomeric asphalt modified urethane. Designed for spray, squeegee, or roller application.
1. Elastomeric Waterproofing, ASTM C836 and C957: Exceeds all criteria.
  2. Solids by volume: 88 percent.
  3. Volatile Organic Compounds (VOC): 0.76 pounds per gallon (92 g/L).
  4. Mullen Burst Strength, ASTM D751, 50 mils in CIM Scrim: 150 pounds per square inch.
  5. Tear Strength, ASTM D624, Die C: 150 pounds per inch.
  6. Tensile Strength, ASTM D412, 100-mil sheet: 900 pounds per square inch.
  7. Extension to Break, ASTM D412: 400 percent.
  8. Recovery from 100 Percent Extension:
    - a. After 5-minutes: 98 percent.
    - b. After 24-hours: 100 percent.
  9. Lining Performance, Crack Bridging:
    - a. 10 Cycles at minus 15 degrees F (minus 26 degrees C): Greater than 1/8-inch.
    - b. After Heat Aging: Greater than 1/4-inch.
  10. Lining Performance, Weathering, ASTM D822: 5000 hours: no cracking.
  11. Softening Point, ASTM D36: Greater than 325 degrees F (160 degrees C).
  12. Deflection Temperature, ASTM D648: below minus 60 degrees (minus 50 degrees C).
  13. Service Temperature: minus 60 degrees F to 220 degrees F (minus 50 degrees C to 105 degrees C).
  14. Hardness, ASTM D2240, Shore A, 77 degrees F (25 degrees C): 60.
  15. Permeability to Water Vapor, ASTM E96, Method E, 100 degrees F (38 degrees C), 100-mil sheet: 0.03 perms.
  16. Abrasion Resistance, Weight Loss, ASTM D4060: 1.2 mg.
  17. Adhesion to Concrete, Dry, Elcometer: 350 pounds per square inch.
  18. Color: Black.

Specifier Notes: Specify the text in the first set of brackets when applying the high-performance lining to concrete surfaces. Specify the text in the second set of brackets when applying the high-performance lining to steel surfaces.

- B. Primer: CIM 61 TN Epoxy Primer. Two-component, high solids, epoxy primer. Use as a primer coat on dry, porous substrates such as concrete.
1. Solids by Volume: 70 percent mixed.
  2. Volatile Organic Compounds (VOC): 2 pounds per gallon (240 g/L).

Specify Notes: Alternate Primer CIM EMT may be used an alternative for green or damp concrete.

Primer: CIM EMT Epoxy Primer. Two component, high solids, moisture tolerant epoxy primer. Use as a primer coat on porous substrates where dry conditions cannot be achieved.

1. Solids by Volume: 89 percent mixed
  2. Volatile Organic Compounds (VOC): 2 pounds per gallon (240 g/L).
- C. Bonding Agent: CIM VOC Compliant Bonding Agent. Organosilane compound dispersed in acetone. Ensures a continuous and uniform bond between surfaces. Use the bonding agent over non-porous surfaces such as steel, except where primer has been installed. Do not use where solvent cleaners are prohibited.
1. Solids by Volume: Less than 1 percent.
  2. Volatile Organic Compounds (VOC): 0 pounds per gallon (0 g/L).
- D. Patching Material: CIM 1000 Trowel Grade. Liquid applied, chemical and corrosion resistant urethane elastomer chemically thickened to allow trowel application with minimum sag. Use as a crack filler and for application to vertical surfaces and cold joints.
3. Elastomeric Waterproofing, ASTM C836 and C957: Exceeds all criteria.
  4. Solids by volume: 89 percent.
  5. Volatile Organic Compounds (VOC): 0.74 pounds per gallon (88 g/L).
  6. Mullen Burst Strength, ASTM D751, 50 mils in CIM Scrim: 150 pounds per square inch.
  7. Tear Strength, ASTM624, Die C: 150 pounds per inch.
  8. Tensile Strength, ASTM D412, 100-mil sheet: 800 pounds per square inch.
  9. Extension to Break, ASTM D412: 300 percent.
  10. Recovery from 100 Percent Extension:
    - a. After 5-minutes: 98 percent.
    - b. After 24-hours: 100 percent.
  11. Lining Performance, Crack Bridging:
    - a. 10 Cycles at minus 15 degrees F (minus 26 degrees C): Greater than 1/8-inch.
    - b. After Heat Aging: Greater than 1/4-inch.
  12. Lining Performance, Weathering, ASTM D 822: 5000 hours: no cracking.
  13. Softening Point, ASTM D36: Greater than 325 degrees F (160 degrees C).
  14. Deflection Temperature, ASTM D648: below minus 60 degrees (minus 50 degrees C).
  15. Service Temperature: minus 60 degrees F to 220 degrees F (minus 50 degrees C to 105 degrees C).
  16. Hardness, ASTM D2240, Shore A, 77 degrees F (25 degrees C): 60.
  17. Permeability to Water Vapor, ASTM E96, Method E, 100 degrees F (38 degrees C), 100-mil sheet: 0.03 perms.
  18. Abrasion Resistance, Weight Loss, ASTM D4060: 1.2 mg.
  19. Adhesion to Concrete, Dry, Elcometer: 350 pounds per square inch.
  20. Color: Black.
- E. Fabric Back Sealing Tape: 4EvaSeal Fabric Back Tape. Elastomeric adhesive with fabric backing for CIM top-coating. Intended for joints and seams
1. Total thickness, ASTM D1000: 30 mils

2. Tensile Strength, ASTM D1000: 15 pounds per inch
  3. Elongation. ASTM D1000: 100 percent
- F. Reinforcing Fabric and Joint Cover Sheet: CIM Scrim. Stitch bonded polyester. Compatible with lining materials.
1. Weight: 3 ounces per square yard (100 g/m<sup>2</sup>).
  2. Tensile Strength, ASTM D1682: 57.1 pounds (30 kg).
  3. Elongation, ASTM D1682: 61.65 percent.
  4. Mullen Burst Strength, ASTM D3726: 176.8 pounds per square inch (1,215 kPa).
  5. Trapezoid Tear Strength, ASTM D1117: 16.1 pounds (7.2 kg).

## **PART 3 EXECUTION**

### **3.1 INSPECT**

- A. Inspect substrate and adjacent areas where high-performance lining will be applied. Notify the Engineer of conditions that would adversely affect the application or subsequent utilization of the high-performance lining. Do not proceed with application until unsatisfactory conditions are corrected.

### **3.2 PROTECTION**

- A. Protect adjacent work and surrounding areas from contact with high-performance lining.

Specifier Notes: Specify surface preparation for concrete, asphalt, steel and earthen substrates.

### **3.3 SURFACE PREPARATION FOR CONCRETE**

- A. Prepare surface in accordance with manufacturer's instructions.
- B. Provide clean, dry, and structurally sound concrete surface.

Specifier Notes: Delete the following paragraphs for surfaces preparation of existing concrete surfaces.

- C. New Concrete:
1. Ensure concrete has a minimum compressive strength of 3,000 psi, is dry, and is free of release agents and curing compounds before application of high-performance lining.
  2. Remove surface laitance and expose the underlying aggregate consistent with ICRI CSP 4 to 6 in accordance with ICRI 03732.

Specifier Notes: Delete the following paragraph for new concrete tanks and lagoons.

Specify the text in the first set of brackets when removing the existing lining. Specify the text in the second set of brackets when applying the high-performance lining over the existing lining. The Engineer should determine if existing linings needs to be removed or can be used as a support for the high-performance lining. Consult manufacturer to verify lining compatibility.

- D. Existing Concrete: [Remove existing lining] [Use existing lining as support for the high-performance lining. Patch existing lining as approved by the Engineer. Abrade the existing lining and apply sample patch to test for suitability and adhesion.]

Specifier Notes: Delete the following paragraph for new concrete tanks and lagoons. Engineer should determine if a condition survey of the existing tank or lagoon is required.

- E. Condition Survey: Perform a condition survey of existing concrete in accordance with ACI 201.1R.

Specifiers Notes: An alternate to abrasive blasting is water blasting to prepare the concrete surface.

F. Abrasive Blasting:

1. Prepare concrete surface to receive high-performance lining by abrasive blasting.
2. Remove dirt, soil, grease, oil, paint, linings, form release agents, curing compounds, laitance, loose material, unsound concrete, and other foreign materials that would inhibit performance of high-performance lining in accordance with ASTM D4258 and by abrasive blasting.
3. Obtain a firm, sound concrete surface in which bug holes are fully opened or repaired.
4. Remove sharp concrete edges and projections.
5. Perform abrasive blasting in accordance with ASTM D4259-88.
6. Receive approval by Engineer of blasting media.
7. Maintain air supply for abrasive blasting free of oil and water in accordance with ASTM D4285.
8. Expose aggregate to obtain a profile of ICRI CSP 4 to 6 in accordance with ICRI 03732.

Specifier Notes: Holes in the concrete surface that will “burp” air and cause holes or bubbles in the high-performance lining shall be filled. Closed bug holes or bug holes with a “blind” surface shall be opened and repaired.

- G. Repair concrete surface to be free of holes. Fully open bug holes before repair. Repair defects in the concrete surface, such as bug holes, air pockets, and honeycomb by filling and smoothing off with patching material, epoxy patching compound, or grout. Abrasive blast repaired surfaces.

Specifier Notes: Surface profile effects, among other things, the appearance of high-performance lining used per unit area, the uniformity of the high-performance lining, and the aesthetics of the project. The performance of a properly installed lining is not affected by the surface roughness. The more of a profile allowed, the more likely the cost of the work will increase. Additional material will be required in order to achieve the minimum thickness.

- H. Ensure substrate is clean and dry in accordance with manufacturer’s instructions. Remove surface laitance from concrete surface to expose aggregate to obtain a profile of ICRI CSP 4 to 6 in accordance with ICRI 03732.
- I. Repair cracks in concrete surface with material suitable for type and width of crack, compatible with substrate and high-performance lining, and approved by the Engineer.



Specifier Notes: Consult manufacturer for more information regarding moisture tests.

- J. Moisture Tests: Do not apply CIM 61TN/CIM 61TN RC primer or high-performance lining to concrete surface unless two or more of the following moisture tests confirm appropriate moisture levels for properly prepared substrates:
1. Plastic Sheet Method (ASTM D4263): Pass/Fail. (Vapor Test)
  2. Relative Humidity Test: Less than 75 percent relative humidity at 70 degrees F. (Vapor Test)
  3. Calcium Chloride Test: Less than 5 pounds per 1,000 square feet per 24 hours. (Vapor Test)
  4. Radio Frequency Test: Less than 5 percent moisture. (Moisture Test)

### 3.4 SURFACE PREPARATION FOR ASPHALT

- A. Prepare surface in accordance with manufacturer's instructions.
- B. Provide clean, dry and sound asphalt surface.

Specifier Notes: Delete the following paragraph for surface preparation of existing asphalt surface.

- C. New Asphalt:
1. Cure new asphalt a minimum of 21 days before application of high-performance lining.
  2. Remove grease and oil.

Specifier Notes: Delete the following paragraph for surface preparation of new asphalt surface.

- D. Old Asphalt:
1. Ensure the substrate is dry and free of all dirt and loose aggregate.
  2. Remove grease and oil.

Specifier Notes: Delete the following paragraph for new asphalt lagoons.

Specify the text in the first set of brackets when removing the existing lining. Specify the text in the second set of brackets when applying the high-performance lining over the existing lining. The Engineer should determine if existing linings need to be removed or can be used as a support for the high-performance lining. Consult manufacturer to verify lining compatibility.

- E. [Remove existing lining] [Use existing lining as support for the high-performance lining. Patch existing lining as approved by the Engineer. Abrade the existing lining and apply sample patch to test for suitability and adhesion.]
- F. Repair cracks in asphalt surface with materials suitable for type and width of cracks, compatible with substrate and high-performance lining and approved by Engineer.

### 3.5 SURFACE PREPARATION FOR STEEL SURFACES

- A. Prepare surfaces in accordance with manufacturer's instructions.

- B. Provide clean, dry, and structurally sound steel surface.

Specifier Notes: Delete the following paragraph for new steel.

Specify the text in the first set of brackets when removing the existing lining. Specify the text in the second set of brackets when applying the high-performance lining over the existing lining. Engineer should determine if existing linings are to be removed or used as a support for the high-performance lining. Consult manufacturer to check lining compatibility.

- C. Existing Steel: [Remove existing lining.] [Use existing lining as support for the high-performance lining. Patch existing lining as approved by the Engineer. Abrade the existing lining and apply sample patch to test for suitability and adhesion.]
- G. Scarify surface for primed steel.
- H. Abrasive blasting:
1. Prepare steel surface to receive high-performance lining by abrasive blasting.
  2. Remove dirt, soil, grease, oil, paint, linings, loose material, loose rust, rust residue, blistered and flaking steel and other foreign materials that would inhibit performance of high-performance lining by abrasive blasting.
  3. Immersion Service: SSPC-SP10/NACE No. 2 – Near-White Blast Cleaning.
  4. Non-immersion Service: SSPC-SP6/Nace No.3 – Commercial Blast Cleaning.
  5. Maintain air supply for abrasive blasting free of oil and water in accordance with ASTM D4285.

### 3.6 APPLICATION

Specifier Notes: Delete the following paragraph if the primer and bonding agent are not used.

Specify the text in the first set of brackets when applying the high-performance lining to concrete surfaces. Specify the text in the second or third set of brackets when applying the high-performance lining to steel surfaces.

- A. [Apply primer to concrete surface a minimum of 5-mils wet thickness for CIM 61TN/61TN RC or minimum of 15-mils wet thickness for CIM EMT. A Uniform lining free of holidays or pinholes is necessary to minimize outgassing effects curing the application of the high-performance lining to porous surfaces such as concrete. Surfaces may require additional coats to obtain a pinhole free finish.]
- [Apply bonding agent in accordance with manufacturer's instructions to cleaned steel surfaces.]
- [Apply primer to cleaned steel surfaces if high-performance lining cannot be applied before the formation of flash rust.]
- B. Allow primer to cure in accordance with manufacturer's instructions before topcoating with the high-performance lining.

- C. Apply high-performance lining in accordance with manufacturer's instructions.
- D. Keep material containers tightly closed until ready for use.
- E. Keep equipment, air supplies, and application surfaces dry.

Specifier Notes: High-performance lining may be preheated to facilitate application at low air temperatures, but working time will be reduced. Contact manufacturer for information on cold weather applications.

- F. Mix and apply when high-performance lining is above 60 degrees F (15 degrees C).
- G. Do not use adulterants, thinners, or cutback solutions.
- H. Blend and mix 2-component materials in accordance with manufacturer's instructions. Do not hand mix components.
- I. Maintain air supply for material spray application free of oil and water in accordance with ASTM D4285.

Specifier notes: Delete the following if the fabric back tape is not used.

- J. Apply fabric back tape directly to seams or joints that are intended to be top-coated with CIM. Consult manufacturer for appropriate tape width.
- K. Apply high-performance lining directly to a clean and dry surface or to reinforcing fabric.
- L. Apply a 6 to 12-inch wide strip of joint cover sheet over cracks over 1/8-inch wide, non-working joints, and edges. Adhere center joint cover sheet over all joints by applying a tack coat of the high-performance lining.
- M. Apply sufficient high-performance lining to achieve 60-mils wet film thickness for containment of wastewater.
- N. Joint Lines:
  - 1. Prepare for joint lines should rain or other conditions require work stoppage or extended delay.
  - 2. Install joint lines clean and straight. Install overlap 6-inches minimum to ensure an impervious joint.
  - 3. Severely abrade with wire brush or sandpaper and apply bonding agent to all areas where the high-performance lining has cured beyond its recoat window.

Specifier Notes: The recoat window is 1-4 hours at 70 degrees F (21 degrees C). The recoat window is affected by air and substrate temperature. Consult manufacturer for assistance in determining recoat window for specific temperatures.

- O. Relining:
  - 4. Recoat the high-performance lining system within the recoat window to obtain maximum interlayer adhesion to build specific thickness.

5. Immersion Service: Minimize areas to be recoated outside the recoat window, except at joint lines.
6. Non-Immersion Service: Severely abrade with wire brush or surface grinder, apply bonding agent, and recoat, if high-performance lining has cured more than the recoat window. Acceptable adhesion can only be achieved through aggressive abrading.

### **3.7 CURING**

- A. Cure high-performance lining in accordance with manufacturer's instructions.

Specifier Notes: Curing time depends upon high-performance lining thickness and substrate temperature. Consult manufacturer for assistance in determining curing time for specific applications.
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- B. Curing Time:
  1. Allow sufficient time for solvents to evaporate from the cured high-performance lining before placing into service.
  2. Allow minimum solvent release time of 24-hours to 48-hours at 60 degrees F (15 degrees C) for a 60-wet mil lining thickness.
- C. Receive approval of cured lining by Engineer.

### **3.8 FIELD QUALITY CONTROL**

- A. Provide inspection services by an independent inspection firm throughout all phases of surface preparation, application, and curing of the high-performance lining.

### **3.9 CLEANING**

- A. Remove and dispose of all temporary materials used to protect adjacent work and surrounding areas.
- B. Immediately remove and clean high-performance lining materials from surfaces not intended to receive the materials.

**END OF SECTION**