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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 2004 Edition*.

SECTION 07 14 16

FLUID-APPLIED WATERPROOFING FOR PLANTER BOXES, PLAZA DECKS AND VEGETATED ROOFS

Specifier Notes: This section covers C.I.M. Industries Inc. “CIM 800” or “CIM 1000” fluid-applied waterproofing for planter boxes, plaza decks and green roof applications to concrete or asphalt surfaces.

Consult manufacturer 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. Fluid-applied waterproofing for [concrete] [asphalt] surface. Fluid-applied waterproofing rapidly cures to form a seamless, abrasion resistant, and elastomeric 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 fluid-applied waterproofing.

- A. Section 03 30 00 – Cast-in-Place Concrete.
- B. Section 07 10 00 – Damproofing and Waterproofing.
- C. Section 07 18 00 – Traffic Coatings.
- D. Section 0996 53 – Elastomeric Coatings.
- E. Section 09 97 23 – Concrete and Masonry Coatings.

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 Coatings 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 Coatings by the Taber Abraser.
- O. ASTM D4258 – Surface Cleaning Concrete for Coating.
- 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, Coatings, and Polymers Overlays.

1.4 SUBMITTALS

- A. Comply with requirements of Section 01 33 00 – 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 fluid-applied waterproofing, 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 certificate indicating completion of manufacturer's contractor training program.
- F. Warranty: Submit manufacturer's standard warranty.

1.5 QUALITY ASSURANCE

A. Qualifications:

1. Applicator: Use applicator experienced in the application of the specified fluid-applied waterproofing 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 coating manufacturer, and approximate quantity of coating applied.
2. Applicator's Supervisor: Employ a supervisor during all phases of the work that had successfully completed "CIM Factory Trained applicator Program". Provide proof of valid certificate.
3. Applicator's Personnel: Employ persons trained for the application of fluid-applied waterproofing.

B. Regulatory Requirements: Comply with environmental regulations.

Specifier Notes: Describe requirements for a meeting to coordinate the application of the fluid-applied waterproofing and to sequence related work.

C. Pre-Application Meeting:

1. Convene a pre-application meeting [____] weeks before the start of application of the fluid-applied waterproofing.
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.

- 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

Specifier Notes: CIM 10-year warranty specifies a 90 mil application, CIM 15-year warranty specifies a 100 mil application and CIM 20-year warranty specifies a 120 mil application. CIM extended warranties only apply to projects that are non-exposed.

- 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 FLUID-APPLIED WATERPROOFING

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

Specify "CIM 800" or "CIM 1000" fluid-applied waterproofing. Select CIM 800 when a lower cost, lower performance system is required.

- A. Primer: CIM 61 BG Epoxy Primer. Two-component, high solids, epoxy primer. Use as a primer coat on dry, porous substrates such as concrete.
1. Solids by Volume: 80 percent mixed.
 2. Volatile Organic Compounds (VOC): 1.41 pounds per gallon (170 g/L).
- B. Bonding Agent: CIM Bonding Agent. Organosilane compound dispersed in isopropyl alcohol. Ensures a continuous and uniform bond between surfaces. Use the bonding agent over non-porous surfaces such as existing fluid-applied waterproofing. Do not use where solvent cleaners are prohibited.
1. Solids by Volume: Less than 1 percent.
 2. Volatile Organic Compounds (VOC): 6.4 pounds per gallon (743 g/L).
- C. Patching Material: CIM 1000 Trowel Grade. Liquid applied, chemical and corrosion resistant urethane elastomer chemically thickened to allow trowel application with minimum sag. IAPMO approved as a waterproofing lining under tile and stone. Use as a crack filler and for application to vertical surfaces and cold joints.
1. Elastomeric Waterproofing, ASTM C836 and C957: Exceeds all criteria.
 2. Solids by volume: 89 percent.
 3. ANSI 118.10" Pass
 4. Volatile Organic Compounds (VOC): 0.74 pounds per gallon (88 g/L).
 5. Mullen Burst Strength, ASTM D751, 50 mils in CIM Scrim: 150 pounds per square inch.
 6. Tear Strength, ASTM624, Die C: 150 pounds per inch.
 7. Tensile Strength, ASTM D412, 100-mil sheet: 800 pounds per square inch.
 8. Extension to Break, ASTM D412: 300 percent.
 9. Recovery from 100 Percent Extension:
 - a. After 5-minutes: 98 percent.
 - b. After 24-hours: 100 percent.
 10. Coating 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.
 11. Coating Performance, Weathering, ASTM D 822: 5000 hours: no cracking.
 12. Softening Point, ASTM D36: Greater than 325 degrees F (160 degrees C).
 13. Deflection Temperature, ASTM D648: below minus 60 degrees (minus 50 degrees C).

14. Service Temperature: minus 60 degrees F to 220 degrees F (minus 50 degrees C to 105 degrees C).
15. Hardness, ASTM D2240, Shore A, 77 degrees F (25 degrees C): 60.
16. Permeability to Water Vapor, ASTM E96, Method E, 100 degrees F (38 degrees C), 100-mil sheet: 0.03 perms.
17. Abrasion Resistance, Weight Loss, ASTM D4060: 1.2 mg.
18. Adhesion to Concrete, Dry, Elcometer: 350 pounds per square inch.
19. Color: Black.

- D. Reinforcing Fabric and Joint Cover Sheet: CIM Scrim. Stitch bonded polyester. Compatible with lining materials.
1. Weight: 3 ounces per square yard (100 g/m²).
 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).
- E. Fluid-applied waterproofing: CIM 800. Two-component, high solids, elastomeric asphalt modified urethane IAPMO approved as a waterproofing lining under tile and stone. Designed for spray, squeegee, or roller application.
2. Elastomeric Waterproofing, ASTM C836 and C957: Exceeds all criteria.
 3. ANSI 118.10: Pass
 4. Solids by volume: 86 percent.
 5. Volatile Organic Compounds (VOC): 0.83 pounds per gallon (99 g/L).
 6. Mullen Burst Strength, ASTM D751, 50 mils in CIM Scrim: 100 pounds per square inch.
 7. Tear Strength, ASTM D624, Die C: 115 pounds per inch.
 8. Tensile Strength, ASTM D412, 100-mil sheet: 650 pounds per square inch.
 9. Extension to Break, ASTM D412: 325 percent.
 10. Recovery from 100 Percent Extension:
 - a. After 5-minutes: 98 percent.
 - b. After 24-hours: 100 percent.
 11. Coating 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. Softening Point, ASTM D36: Greater than 275 degrees F (135 degrees C).

13. Deflection Temperature, ASTM D648: below minus 40 degrees (minus 40 degrees C).
 14. Service Temperature: minus 60 degrees F to 180 degrees F (minus 50 degrees C to 82 degrees C).
 15. Hardness, ASTM D2240, Shore A, 77 degrees F (25 degrees C): 60.
 16. Permeability to Water Vapor, ASTM E96, Method E, 100 degrees F (38 degrees C), 100-mil sheet: 0.03 perms.
 17. Abrasion Resistance, Weight Loss, ASTM D4060: 1.2 mg.
 18. Adhesion to Concrete, Dry, Elcometer: 350 pounds per square inch.
 19. Color: Black.
- F. Fluid-applied waterproofing: CIM 1000. Two-component, high solids, elastomeric asphalt modified urethane IAPMO approved as a waterproofing lining under tile and stone. Designed for spray, squeegee, or roller application.
1. Elastomeric Waterproofing, ASTM C836 and C957: Exceeds all criteria.
 2. Solids by volume: 88 percent.
 3. ANSI 118.10: Pass
 4. Volatile Organic Compounds (VOC): 0.76 pounds per gallon (92 g/L).
 5. Mullen Burst Strength, ASTM D751, 50 mils in CIM Scrim: 150 pounds per square inch.
 6. Tear Strength, ASTM D624, Die C: 150 pounds per inch.
 7. Tensile Strength, ASTM D412, 100-mil sheet: 900 pounds per square inch.
 8. Extension to Break, ASTM D412: 400 percent.
 9. Recovery from 100 Percent Extension:
 - a. After 5-minutes: 98 percent.
 - b. After 24-hours: 100 percent.
 10. Coating Performance, Crack Bridging:
 - c. 10 Cycles at minus 15 degrees F (minus 26 degrees C): Greater than 1/8-inch.
 - d. After Heat Aging: Greater than 1/4-inch.
 11. Coating Performance, Weathering, ASTM D822: 5000 hours: no cracking.
 12. Softening Point, ASTM D36: Greater than 325 degrees F (160 degrees C).
 13. Deflection Temperature, ASTM D648: below minus 60 degrees (minus 50 degrees C).
 14. Service Temperature: minus 60 degrees F to 220 degrees F (minus 50 degrees C to 105 degrees C).
 15. Hardness, ASTM D2240, Shore A, 77 degrees F (25 degrees C): 60.

16. Permeability to Water Vapor, ASTM E96, Method E, 100 degrees F (38 degrees C), 100-mil sheet: 0.03 perms.
17. Abrasion Resistance, Weight Loss, ASTM D4060: 1.2 mg.
18. Adhesion to Concrete, Dry, Elcometer: 350 pounds per square inch.
19. Color: Black.

Specifier Notes: Use "F" & "G" only for applications where a thinset and tile (or mortar and stone) will be installed directly to the waterproofing system.

G. Topcoats

1. Aggregate must be kiln dried bagged material that is absolutely dry and clean. A dry play sand or similar sized aggregate is acceptable.

H. Thinsets or Mortar

1. Use thinset or mortar suitable for project. Contact manufacturer of thinset to determine suitability.

Specifier Notes: Insert thinset or mortar product information above.

PART 3 EXECUTION

3.1 INSPECT

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

3.2 PROTECTION

- A. Protect adjacent work and surrounding areas from contact with fluid-applied waterproofing.

Specifier Notes: Specify surface preparation for concrete or asphalt surfaces.

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 fluid-applied waterproofing.
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.

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

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

Specifier Notes: Delete the following paragraph for new concrete. Engineer should determine if a condition survey of the existing substrate is required.

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

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

F. Abrasive Blasting:

1. Prepare concrete surface to receive fluid-applied waterproofing by abrasive blasting.
2. Remove dirt, soil, grease, oil, paint, coatings, form release agents, curing compounds, laitance, loose material, unsound concrete, and other foreign materials that would inhibit performance of fluid-applied waterproofing 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 fluid-applied waterproofing 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 fluid-applied waterproofing used per unit area, the uniformity or the fluid-applied waterproofing, and the aesthetics of the project. The performance of a properly installed coating 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 fluid-applied waterproofing, and approved by the Engineer.

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

- J. Moisture Tests: Do not apply primer or fluid-applied waterproofing 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.
 2. Relative Humidity Test: Less than 75 percent relative humidity at 70 degrees F.
 3. Calcium Chloride Test: Less than 5 pounds per 1,000 square feet per 24 hours.
 4. Radio Frequency Test: Less than 5 percent moisture.

3.4 SURFACE PREPERATION 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 the fluid-applied waterproofing.
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.

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

- E. [Remove existing coating] [Use existing coating as support for the fluid-applied waterproofing. Patch existing coating as approved by the Engineer. Abrade the existing coating 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 the fluid-applied waterproofing and approved by Engineer.

3.5 APPLICATION

Specifier Notes: Delete "A" & "B" if the primer is not used.

- A. Apply primer to concrete surface a minimum of 5-mils wet thickness. A Uniform coating free of holidays or pinholes is necessary to minimize outgassing effects curing the application of the fluid-applied waterproofing to porous surfaces such as concrete. Surfaces may require additional coats to obtain a pinhole free finish.
- B. Allow primer to cure in accordance with manufacturer's instructions before topcoating with the fluid-applied waterproofing.

- C. Apply fluid-applied waterproofing 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: Fluid-applied waterproofing 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 fluid-applied waterproofing 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.
- J. Apply fluid-applied waterproofing directly to a clean and dry surface or to reinforcing fabric.
- K. 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 fluid-applied waterproofing.
- L. Apply sufficient fluid-applied waterproofing to achieve 90 wet-mil film thickness.
- M. 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 fluid-applied waterproofing 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.

N. Recoating:

1. Recoat the fluid-applied waterproofing system within the recoat window to obtain maximum interlayer adhesion to build specific thickness.
2. Immersion Service: Minimize areas to be recoated outside the recoat window, except at joint lines.
3. Non-Immersion Service: Severely abrade with wire brush or surface grinder; apply bonding agent, and recoat, if fluid-applied waterproofing has cured more than the recoat window. Acceptable adhesion can only be achieved through aggressive abrading.

Specifier Notes: Use "O" only for applications where a thinset and tile (or mortar and stone) will be installed directly to the waterproofing system. Consult manufacture for assistance in determining the fluid-applied waterproofing's thickness for specific aggregate size.

O. Top-coating:

1. Apply fluid-applied waterproofing tack coat within the recoat window.
2. Immediately broadcast aggregate into tack coat until refusal.
3. Vacuum and sweep up excess aggregate after waterproofing has cured for 24 hours.
4. Apply thinsets or mortar directly to the aggregate surface of the waterproofing membrane.

3.6 CURING

- A. Cure fluid-applied waterproofing in accordance with manufacturer's instructions.

Specifier Notes: Curing time depends upon fluid-applied waterproofing thickness and substrate temperature. Consult manufacturer for assistance in determining curing time for specific applications.

B. Curing Time:

1. Allow minimum solvent release time of 24-hours at 60 F° (15 C°) for a 60-wet mil coating thickness. Allow 48 hours for a 90 mil thickness, and 72 hours for thicknesses greater than 90 mils hours at 60 F° (15 C°).

- C. Receive approval of cured coating by Engineer.

3.7 FIELD QUALITY CONTROL

- A. Provide inspection services by an independent inspection firm throughout all phases of surface preparation, application, and curing of the fluid-applied waterproofing.

3.8 CLEANING

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

END OF SECTION