

## SECTION 070150.73 - REHABILITATION OF MODIFIED BITUMINOUS MEMBRANE ROOFING

### PART 1 - GENERAL

#### 1.1 SUMMARY

- A. This Section includes the following:
  - 1. Roof re-coating preparation.
  - 2. Application of fluid-applied roof membrane and flashings over existing modified bituminous membrane roofing.
- B. Allowances: Refer to Division 01 Section "Allowances" for description of Work in this Section affected by allowances.
- C. Unit Prices: Refer to Division 01 Section "Unit Prices" for description of Work in this Section affected by unit prices.

#### 1.2 ROOFING CONFERENCES

- A. Roofing Rehabilitation Preinstallation Conference: Conduct conference at Project site to review methods and procedures related to roofing system.
  - 1. Meet with Owner; roofing re-coating materials manufacturer's representative; roofing re-coating Installer including project manager and foreman; and installers whose work interfaces with or affects re-coating including installers of roof accessories and roof-mounted equipment requiring removal and replacement as part of the Work.
  - 2. Review methods and procedures related to re-coating preparation, including membrane roofing system manufacturer's written instructions.
  - 3. Procedures for salvaging and recycling of demolition and construction waste
  - 4. Review temporary protection requirements for existing roofing system that is to remain, during and after installation.
  - 5. Review roof drainage during each stage of re-coating and review roof drain plugging and plug removal procedures.
  - 6. Review and finalize construction schedule, and verify availability of materials, Installer's personnel, equipment, and facilities needed to make progress and avoid delays.
  - 7. Review base flashings, special roofing details, drainage, penetrations, equipment curbs, and condition of other construction that will affect re-coating.

8. Review HVAC shutdown and sealing of air intakes.
9. Review shutdown of fire-suppression, -protection, and -alarm and -detection systems.
10. Review procedures for asbestos removal or unexpected discovery of asbestos-containing materials.
11. Review governing regulations and requirements for insurance and certificates if applicable.
12. Review existing conditions that may require notification of Owner before proceeding.

### 1.3 MATERIALS OWNERSHIP

- A. Demolished materials shall become Contractor's property and shall be removed from Project site.

### 1.4 DEFINITIONS

- A. Roofing Terminology: Refer to ASTM D 1079 "Standard Terminology Relating to Roofing and Waterproofing" and glossary in NRCA's "The NRCA Roofing Manual: Membrane Roof Systems" for definition of terms related to roofing work in this Section.
- B. Roofing Coating Preparation: Existing roofing that is to remain and be prepared to accept restorative coating application.
- C. Patching: Removal of a portion of existing membrane roofing system from deck or removal of selected components and accessories from existing membrane roofing system and replacement with compatible similar materials.
- D. Remove: Detach items from existing construction and legally dispose of them off-site unless indicated to be removed and reinstalled.
- E. Existing to Remain: Existing items of construction that are not indicated to be removed.
- F. Construction Waste: Building and site improvement materials and other solid waste resulting from construction, remodeling, renovation, or repair operations. Construction waste includes packaging.
- G. Demolition Waste: Building and site improvement materials resulting from re-roofing preparation, demolition, or selective demolition operations.
- H. Disposal: Removal off-site of demolition and construction waste and subsequent sale, recycling, reuse, or deposit in landfill or incinerator acceptable to authorities having jurisdiction.
- I. Recycle: Recovery of demolition or construction waste for subsequent processing in preparation for reuse.

- J. Salvage: Recovery of demolition or construction waste and subsequent sale or reuse in another facility.
- K. Salvage and Reuse: Recovery of demolition or construction waste and subsequent incorporation into the Work.

#### 1.5 ACTION SUBMITTALS

- A. Product Data: For each type of product specified.
- B. Sustainable Design Submittals:
  - 1. Product Test Reports: For roof coating, indicating that coated roof will comply with solar reflectance index requirement.
  - 2. Indicate CRRC Compliance.
  - 3. Indicate Food, Conservation, and Energy Act of 2008 Bio-based material requirement compliance.
    - a. Indicate type of bio-based material in product.
    - b. Indicate the percentage of bio-based content per unit of product.
    - c. Indicate relative dollar value of bio-based content product to total dollar value of product included in project.

#### 1.6 INFORMATIONAL SUBMITTALS

- A. Qualification Data: For Installer, Manufacturer, and Roofing Inspector.
  - 1. Letter written for this Project indicating manufacturer approval of Installer to apply specified products and provide specified warranty.
- B. Manufacturer's Certificate: Provide UL listing certificate for roofing system.
- C. Contractor's Product Certificate: Submit notarized certificate, indicating products intended for Work of this Section, including product names and numbers and manufacturers' names, with statement indicating that products to be provided meet the requirements of the Contract Documents.
- D. Product Test Reports: If requested, based on evaluation of comprehensive tests performed by manufacturer and witnessed by a qualified testing agency, for components of roofing rehabilitation system.
- E. Proposed Protection Measures: Submit report, including Drawings, that indicates the measures proposed for protecting individuals and property, for environmental protection, and for dust control. Indicate proposed locations and construction of barriers.

- F. Warranties: Unexecuted sample copies of special warranties.
- G. Existing Conditions Photographs: Show existing conditions of adjoining construction and site improvements, including exterior and interior finish surfaces, which might be misconstrued as having been damaged by re-coating operations. Submit before Work begins.
- H. Inspection Reports: Reports of Roofing Inspector. Include weather conditions, description of work performed, tests performed, defective work observed, and corrective actions required and carried out.
  - 1. Submit report within 24 hours after inspection.

#### 1.7 CLOSEOUT SUBMITTALS

- A. Maintenance Data: To include in maintenance manuals.
- B. Warranties: Executed copies of approved warranty forms.

#### 1.8 QUALITY ASSURANCE

- A. Installer Qualifications: An employer of workers trained and certified by manufacturer, including a full-time on-site supervisor with a minimum of three years' experience installing products comparable to those specified, able to communicate verbally with Contractor, and employees, and the following:
  - 1. Qualified by the manufacturer to install manufacturer's product and furnish warranty of type specified.
- B. Manufacturer Qualifications: Primary product manufacturer that is UL listed for roofing system identical to that specified for this Project with minimum five years' experience in manufacture of comparable products in successful use in similar applications, and able to furnish warranty with provisions matching specified requirements.
- C. Roofing Inspector Qualifications: A technical representative of manufacturer not engaged in the sale of products and experienced in the installation and maintenance of the specified roofing system, qualified to perform roofing observation and inspection specified in Field Quality Control Article, to determine Installer's compliance with the requirements of this Project, and approved by the manufacturer to issue warranty certification. The Roofing Inspector shall be one of the following:
  - 1. An authorized full-time technical employee of the manufacturer.

#### 1.9 FIELD CONDITIONS

- A. Weather Limitations: Proceed with rehabilitation work only when existing and forecasted weather conditions permit Work to proceed without water entering into existing roofing system or building.

1. Store all materials prior to application at temperatures recommended by manufacturer.
  2. Apply coatings within range of ambient and substrate temperatures recommended by manufacturer.
  3. Do not apply roofing in snow, rain, fog, or mist.
- B. Protect building to be rehabilitated, adjacent buildings, walkways, site improvements, exterior plantings, and landscaping from damage or soiling from rehabilitation operations.
- C. Maintain access to existing walkways, corridors, and other adjacent occupied or used facilities.
- D. Daily Protection: Coordinate installation of roofing so insulation and other components of roofing system not permanently exposed are not subjected to precipitation or left uncovered at the end of the workday or when rain is forecast.
- E. Owner will occupy portions of building immediately below re-coating area. Conduct re-coating so Owner's operations will not be disrupted. Provide Owner with not less than 72 hours' notice of activities that may affect Owner's operations.

#### 1.10 WARRANTY

- A. Manufacturer's Warranty: Roof System Manufacturer's standard form in which Manufacturer agrees to repair or replace components of roofing system that fail in materials or workmanship within warranty period, as follows. Warranty shall be issued by same manufacturer issuing roofing warranties for the metal roof system and single ply roof system.
1. Form of Warranty: Manufacturer's standard warranty form.
  2. Scope of Warranty: Work of this Section and including sheet metal details and termination details installed by the roof system Installer and approved by the Roof System Manufacturer.
  3. Warranty Period: 15 years from date of completion.
- B. Installer Warranty: Installer's warranty signed by Installer, as follows.
1. Form of Warranty: Form acceptable to Roofing Manufacturer and Owner.
  2. Scope of Warranty: Work of this Section.
  3. Warranty Period: 2 years from date of completion.

## PART 2 - PRODUCTS

### 2.1 MANUFACTURERS

- A. Basis of Design: The roof system specified in this Section is based upon products of Tremco, Inc., Beachwood, OH, (800) 562-2728, [www.tremcoroofing.com](http://www.tremcoroofing.com) that are named in other Part 2 articles..

### 2.2 PERFORMANCE REQUIREMENTS

- A. General Performance: Rehabilitated roofing shall withstand exposure to weather without failure or leaks due to defective manufacture or installation.
  - 1. Accelerated Weathering: Roofing system shall withstand 5000 hours of exposure when tested according to ASTM G 152, ASTM G 154, or ASTM G 155.
- B. Material Compatibility: Provide roofing materials that are compatible with one another under conditions of service and application required, as demonstrated by roofing manufacturer based on testing and field experience.
- C. Exterior Fire-Test Exposure: Roofing system exterior fire-test exposure performance following application of rehabilitation coating shall not be less than that of the pre-rehabilitated roof performance when tested in accordance with ASTM E 108, based upon manufacturer's tests of identical applications.
- D. Energy Performance: Provide roof coating with initial solar reflectance index not less than 78 when calculated according to ASTM E 1980, based upon testing of identical products by a qualified testing agency.
- E. Energy Performance: Provide rehabilitated roofing according to one of the following when tested according to CRRC-1:
  - 1. Three-year, aged solar reflectance of not less than 0.55 and emissivity of not less than 0.75.
- F. Three-year, aged solar reflectance index of not less than 64 when calculated according to ASTM E 1980.
- G. Bio-Based Content: Provide roofing rehabilitation coating materials meeting requirements of USDA Bio-based Affirmative Procurement Program, with not less than 20 percent bio-based content.

### 2.3 MATERIALS

- A. General: Re-coating materials recommended by roofing system manufacturer for intended use and compatible with components of existing membrane roofing system.

- B. Infill Materials: Where required to replace test cores and to patch existing roofing, use infill materials matching existing membrane roofing system materials, unless otherwise indicated.
- C. Temporary Roof Drainage: Design and selection of materials for temporary roof drainage are responsibilities of the Contractor.

#### 2.4 FLUID-APPLIED ROOFING MEMBRANE

- A. Polyurethane Elastomeric Fluid-Applied System: Two-coat fluid-applied roofing membrane formulated for application over prepared existing roofing substrate.
  - 1. Polyurethane Roof Coating System Base Coat: Bio-based, low-odor low-VOC two-part, for use with a compatible top coat.
    - a. Basis of design product: Tremco, AlphaGuard BIO Base Coat.
    - b. Combustion Characteristics, UL 790: Maintains combustion characteristics of existing roof system.
    - c. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 1 g/L.
    - d. Accelerated Weathering, 5000 hours, ASTM G154: Pass.
    - e. Hardness, Shore A, minimum, ASTM D2240: 80.
    - f. Solids, by volume, ASTM D2697: 100 percent.
    - g. Bio-Based Content, Minimum: 70 percent.
    - h. \*Retain applicable thickness from list below\*.
    - i. Minimum Thickness, Base Coat non-reinforced over Smooth BUR, MB, Concrete, Single-Ply: 32 mils (0.81 mm) wet.
    - j. Minimum Thickness, Base Coat reinforced over Smooth BUR, MB, Concrete, Single-Ply: 48 mils (1.22 mm) wet.
    - k. Minimum Thickness, Base Coat non-reinforced over Granular Surfaced MB: 48 mils (1.22 mm) wet.
    - l. Minimum Thickness, Base Coat reinforced over Granular Surfaced MB: 64 mils (1.62 mm) wet.
  - 2. Polyurethane roof coating system top coat, bio-based low-odor low-VOC two-part, for application over compatible base coat.
    - a. Basis of design product: Tremco, AlphaGuard BIO Top Coat.

- b. Combustion Characteristics, UL790: Maintains combustion characteristics of existing roof system.
- c. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 6 g/L.
- d. Solar Reflectance Index (SRI), ASTM E1980: For white, not less than 103.
- e. Accelerated Weathering, 5000 hours, ASTM G 154: Pass.
- f. Hardness, Shore A, minimum, ASTM D2240: 81.
- g. Solids, by volume, ASTM D2697: 100 percent.
- h. Bio-Based Content, Minimum: 60 percent.
- i. Minimum Thickness, reinforced system: 48 mils (1.22 mm) wet.
- j. Minimum Thickness, non-reinforced system: 16 mils (0.40 mm) wet.
- k. Minimum Thickness, Slip-Resistant Coat: 24 mils (0.60 mm) wet.
- l. Color: White.

B. Primers:

- 1. Primer for Asphaltic and Single-Ply Membranes: Water-based, polymer-modified quick-dry low odor primer.
  - a. Basis of design product: Tremco, AlphaGuard WB Primer.
  - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 1 g/L.
  - c. Solids, by weight: 70 percent.

C. Fluid-Applied Membrane Reinforcing Fabric:

- 1. Polyester Reinforcing and Protection Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes and flashings and as a protection layer under pavers or stone aggregates.
  - a. Basis of design product: Tremco, Permafab.
  - b. Tensile Strength, Minimum, ASTM D1682: 50 lbf (23 kg) avg..
  - c. Elongation, Minimum, ASTM D1682: 60 percent.
  - d. Tear Strength, Minimum, ASTM D1117: 16 lbf (7.3 kg) avg..
  - e. Weight: 3 oz./sq. yd (102 g/sq. m).



## 2.5 AUXILIARY MATERIALS

- A. General: Auxiliary materials recommended by roofing system manufacturer for intended use and compatible with existing roofing system and fluid-applied roofing system.
- B. Seam Sealer: Waterproof seam and patching material compatible with applied coating.
  - 1. Seam Sealer: Aliphatic polyurethane sealer, single-component, moisture curing, high solids, low-VOC, formulated for compatibility and use with specified roofing substrates.
    - a. Basis of design product: Tremco, SOLARGARD Seam Sealer.
    - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 75 g/L.
    - c. Tensile Strength, ASTM D412: 270 psi (1860 kPa).
    - d. Tear Strength, ASTM D412: 35 pli (6 kN/m).
    - e. Elongation, ASTM D412: 700 percent.
    - f. Color: White.
- C. Seam and Detail Reinforcing Fabric:
  - 1. Polyester Reinforcing and Protection Fabric: 100 percent stitch-bonded mildew-resistant polyester fabric intended for reinforcement of compatible fluid-applied membranes and flashings and as a protection layer under pavers or stone aggregates.
    - a. Basis of design product: Tremco, Permafab.
    - b. Tensile Strength, Minimum, ASTM D1682: 50 lbf (23 kg) avg..
    - c. Elongation, Minimum, ASTM D1682: 60 percent.
    - d. Tear Strength, Minimum, ASTM D1117: 16 lbf (7.3 kg) avg..
    - e. Weight: 3 oz./sq. yd (102 g/sq. m).
- D. Joint Sealant: Elastomeric joint sealant compatible with applied coating, with movement capability appropriate for application.
  - 1. Joint Sealant, Polyurethane: ASTM C920, Type S, Grade NS, Class 50 single-component moisture curing sealant, formulated for compatibility and use in dynamic and static joints; paintable.
    - a. Basis of design product: Tremco, TremSEAL Pro.
    - b. Volatile Organic Compounds (VOC), maximum, ASTM D3960: 40 g/L.

- c. Hardness, Shore A, ASTM C661: 40.
  - d. Adhesion to Concrete, ASTM C794: 35 pli.
  - e. Tensile Strength, ASTM D412: 350 psi (2410 kPa).
  - f. Color: White.
- E. Fasteners: Factory-coated steel fasteners and metal or plastic plates meeting corrosion-resistance provisions in FM 4470; designed for fastening roofing membrane components to substrate; tested by manufacturer for required pullout strength; and acceptable to roofing system manufacturer.
- F. Metal Flashing Sheet: Provide metal flashing sheet matching type, thickness, finish, and profile of existing metal flashing and trim.
- G. Miscellaneous Accessories: Provide miscellaneous accessories recommended by roofing system manufacturer.

## 2.6 WALKWAYS

- A. Slip Resistant Aggregate for Fluid-Applied Walkways:
- 1. Aggregate: For finished coat slip resistance: Silica sand, 20-40 mesh.

## PART 3 - EXECUTION

### 3.1 EXAMINATION

- A. Examine existing roofing substrates, with Installer present, for compliance with requirements and for other conditions affecting application and performance of roof coatings.
- 1. For the record, prepare written report, endorsed by Installer, listing conditions detrimental to performance.
  - 2. Verify compatibility of approved re-coating system with and suitability of substrates.
  - 3. Verify that substrates are visibly dry and free of moisture.
  - 4. Verify that roofing membrane surfaces have adequately aged to enable proper bond with re-coating system base coat.
  - 5. Verify that existing roofing membrane is free of blisters, splits, open laps, indications of shrinkage, and puncture damage or other indications of impending roof system failure.
  - 6. Commencing application of fluid-applied re-coating membrane indicates acceptance of surfaces and conditions.

### 3.2 PREPARATION

- A. Pollution Control: Comply with environmental regulations of authorities having jurisdiction. Limit spread of dust and debris.
  - 1. Remove and transport debris in a manner that will prevent spillage on adjacent surfaces and areas.
  - 2. Remove debris from building roof by chute, hoist, or other device that will convey debris to grade.
- B. Shut down air intake equipment in the vicinity of the Work in coordination with the Owner. Cover air intake louvers before proceeding with re-coating work that could affect indoor air quality or activate smoke detectors in the ductwork.
  - 1. Verify that rooftop utilities and service piping affected by the Work have been shut off before commencing Work.
- C. Maintain roof drains in functioning condition to ensure roof drainage at end of each workday. Prevent debris from entering or blocking roof drains and conductors. Use roof-drain plugs specifically designed for this purpose. Remove roof-drain plugs at end of each workday, when no work is taking place, or when rain is forecast.
  - 1. Do not permit water to enter into or under existing membrane roofing system components that are to remain.

### 3.3 ROOFING COATING PREPARATION

- A. Repair of Ponding Areas: Repair areas indicated as ponding areas or areas of inadequate drainage by removing roof membrane, adding additional insulation as required to provide minimum slopes to drain required by roofing rehabilitation coating manufacturer, and replace membrane with material matching existing. Submit photographic report indicating compliance.
- B. Membrane Surface Preparation:
  - 1. Remove loose granular aggregate from granular aggregate-surfaced built-up bituminous roofing with a power broom.
  - 2. Remove pavers and walkway pads from roofing membrane.
  - 3. Remove blisters, ridges, buckles, roofing membrane fastener buttons projecting above the membrane, and other substrate irregularities from existing roofing membrane that would inhibit application of uniform, waterproof coating.
  - 4. Broom clean existing substrate.
  - 5. Substrate Cleaning: Clean substrate of contaminants such as dirt, debris, oil, and grease that can affect adhesion of coating by power washing at maximum 2,000 psi.

- a. Dispose of wastewater in accordance with requirements of authorities having jurisdiction.
  6. Verify that existing substrate is dry before proceeding with application of coating. Spot check substrates with an electrical capacitance moisture-detection meter.
  7. Verify adhesion of new products.
- C. Existing Flashing and Detail Preparation: Repair flashings, gravel stops, copings, and other roof-related sheet metal and trim elements. Reseal joints, replace loose or missing fasteners, and replace components where required to leave in a watertight condition.
1. Install new surface mounted counterflashing above base flashing termination along entire length of parapet wall. Install per manufacturers approved surface mounted counterflashing detail.
  2. Roof Drains: Remove drain strainer and clamping ring. Grind metal surfaces down to clean, bare, metal.
- D. At Identified Vents:
1. Remove existing failed repairs to provide a smooth substrate.
  2. Patch back and damaged roofing as specified and according to manufacturer's requirements.
- E. At Wall Joint Locations:
1. Remove existing failed sealant and other repair materials to provide a smooth acceptable substrate.
  2. Fill gaps larger than ¼" with new backer-rod.
  3. Apply new polyurethane sealant to all tilt up wall joints.
- F. At Multi-Pipe Penetration:
1. Remove existing failed flashings from multipipe penetration locations.
  2. Fabricate and install new pelican hood flashing according to manufacturer's recommended detail.
- G. At Wood Sleeper Location:
1. Remove and dispose of existing wood sleeper.
  2. Install new pressure treated wood sleepers, matching existing sleeper size.

3. Set new pressure treated wood sleepers over walk pad cut outs.

H. Surface Priming: Prime surfaces to receive fluid-applied coating as required using coating manufacturer's recommended product for surface material. Apply at application rate recommended by manufacturer.

1. Ensure primer does not puddle and substrate has complete coverage.

2. Allow to cure completely prior to application of coating.

I. Membrane Repair: Repair membrane at locations with irregularities using seam sealer mastic and reinforcing fabric.

J. Membrane Seam Reinforcement: Reinforce membrane seams using seam sealer mastic and reinforcing fabric overlapping onto field of existing membrane not less than width required by roof coating manufacturer.

### 3.4 FLUID-APPLIED FLASHING APPLICATION

A. Fluid-Applied Flashing and Detail Base Coat Application: Complete base coat and fabric reinforcement at parapets, curbs, penetrations, and drains prior to application of field of fluid-applied membrane. Apply base coat in accordance with manufacturer's written instructions.

1. Apply base coat on prepared and primed surfaces and spread coating evenly. Extend coating minimum of 8 inches (200 mm) up vertical surfaces and 4 inches (100 mm) onto horizontal surfaces.

2. Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.

3. Fabric Reinforcement: Embed fabric reinforcement into wet base coat. Lap adjacent flashing pieces of fabric minimum 3 inches (75 mm) along edges and 6 inches (150 mm) at end laps.

a. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.

4. Roof Drains: Install base coat onto surrounding membrane surface and metal drain bowl flange. Install target piece of fabric reinforcement immediately into wet base coat and roll to fully embed and saturate fabric. Reinstall clamping ring and strainer following application of top-coat. Replace broken drain ring clamping bolts.

5. Allow base coat to cure prior to application of top-coat.

### 3.5 FLUID-APPLIED MEMBRANE APPLICATION

- A. Fluid-Applied Membrane Base Coat: Apply base coat to field of membrane in accordance with manufacturer's written instructions.
1. Apply base coat on prepared and primed surfaces and spread coating evenly.
  2. Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
  3. Fabric Reinforcement: Embed fabric reinforcement into wet base coat. Lap adjacent flashing pieces of fabric minimum 3 inches (75 mm) along edges and 6 inches (150 mm) at end laps.
    - a. Roll surface of fabric reinforcing to completely embed and saturate fabric. Leave finished base coat with fabric free of pin holes, voids, or openings.
    - b. Following curing of base coat and prior to application of top-coat, sand raised or exposed edges of fabric reinforcement.
- B. Top-Coat Application: Apply top-coat to field of membrane and flashings uniformly in a complete, continuous installation.
1. Allow base coat to cure prior to application of top coat.
  2. Following curing of base coat and prior to application of top-coat, sand raised or exposed edges of fabric reinforcement.
  3. Prime base coat prior to application of top-coat if top coat is not applied within 72 hours of the base coat application, using manufacturer's recommended primer.
  4. Apply top-coat extending coating up vertical surfaces and out onto horizontal surfaces. Install top coat over field base coat and spread coating evenly.
  5. Back roll to achieve not less than minimum coating thickness indicated in Part 2 product listing unless greater thickness is recommended by manufacturer. Verify thickness as work progresses.
  6. Avoid foot traffic on new fluid-applied membrane for a minimum of 24 hours.

### 3.6 WALKWAY INSTALLATION

- A. Install walkways following application of coating. Install walkway path in a continuous path from roof access to and surrounding all serviceable equipment..
- B. Slip-Resistant Walkway Topcoat: Apply walkway second topcoat following application and curing of top coat. Locate as indicated on Drawings.

1. Mask walkway location with tape.
2. Prime first top coat prior to application of walkway top coat if walkway top coat is not applied within 72 hours of the first top coat application, using manufacturer's recommended primer.
3. Broadcast Slip-Resistant Top Coat Aggregate in wet top coat at rate indicated in Part 2 product listing or as otherwise recommended by coating manufacturer.
  - a. Back roll aggregate filled top coat creating even dispersal of aggregate. Remove masking immediately.

### 3.7 FIELD QUALITY CONTROL

- A. Roofing Inspector: Owner will engage a qualified roofing inspector to perform roof tests and inspections and to prepare test reports.
- B. Repair fluid-applied membrane where test inspections indicate that they do not comply with specified requirements.
- C. Arrange for additional inspections, at Contractor's expense, to verify compliance of replaced or additional work with specified requirements.

### 3.8 DISPOSAL

- A. Collect demolished materials and place in containers. Promptly dispose of demolished materials. Do not allow demolished materials to accumulate on-site.
  1. Storage or sale of demolished items or materials on-site is not permitted.
- B. Transport and legally dispose of demolished materials off Owner's property.

### 3.9 PROTECTING AND CLEANING

- A. Protect roofing system from damage and wear during remainder of construction period.
- B. Correct deficiencies in or remove coating that does not comply with requirements, repair substrates, and reapply coating.
- C. Clean overspray and spillage from adjacent construction using cleaning agents and procedures recommended by manufacturer of affected construction.

END OF SECTION 070150.73