



SECTION 07185

WATERPROOF PEDESTRIAN TRAFFIC COATING

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PART 1 GENERAL

1.1 SECTION INCLUDES

- A. Traffic membrane, consisting of welded seam PVC roofing membrane, over the following surfaces as indicated on the Drawings:
 - 1. Balconies, sundecks and roof decks.
 - 2. Walkways and stairways.
 - 3. Patios and courtyards.
 - 4. Swimming pool and hot tub decks.

1.2 RELATED SECTIONS

- A. Section 07620 - Sheet Metal Flashing and Trim.
- B. Section 07500 - Membrane Roofing.
- C. Section 07710 - Manufactured Roof Specialties.
- D. Section 15160 - Roof Drains.

1.3 REFERENCES

- A. ASTM E 108 - Standard Test Methods for Fire Tests of Roof Coverings.
- B. CAN/ULC-S107 - Standard Methods of Fire Tests of Roof Coverings.
- C. CCMC - Technical Guide for PVC Sheet Waterproofing (Exposed to Light Pedestrian Traffic).
- D. CGSB 37.54-95 - Roofing and Waterproofing Membrane, Sheet Applied, Flexible, Polyvinyl Chloride.
- E. CGSB 37-GP-55M - Application of Sheet Applied Flexible Polyvinyl Chloride Roofing

Membrane.

- F. FBC 2014 - Compliance with Florida Building Commission Requirements.
- G. ICC - Acceptance Criteria (AC39) for Walking Decks
- H. ICC - Acceptance Criteria (AC75) for Membrane Roof Covering Systems
- I. TDI RC-477 - Meets Texas Department of Insurance Requirements.
- J. UBC Std 15-2 - Test Standard for Determining the Fire Retardancy of Roof-covering Materials.

1.4 SUBMITTALS

- A. Submit under provisions of Section 01300.
- B. Product Data: Manufacturer's data sheets on each product to be used, including:
 - 1. Preparation instructions and recommendations.
 - 2. Storage and handling requirements and recommendations.
 - 3. Installation methods.
- C. Shop Drawings: Installation and seaming plan, showing joints, termination details, and interface with other materials.
- D. Verification Samples: Two 8-1/2 by 11 inch (210 by 250 mm) pieces showing finish, pattern, color, and backing with label.
- E. Manufacturer's Certificates: Certify products meet or exceed specified requirements.

1.5 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Company specializing in providing products of the type specified in this section, with minimum of 25 years documented experience with products in use.
- B. Installer Qualifications: Company specializing in installing products of the type specified with trained installer and currently authorized by manufacturer.
- C. Pre-installation Meeting: Meeting to discuss waterproofing practices and precautions applicable to this project.
 - 1. Convene minimum of 7 days prior to start of installation.
 - 2. Require the attendance of:
 - a. Manufacturer's representative.
 - b. Contractor's field superintendent.
 - c. Installation foreman.
 - d. Other trades affected by this work.
 - e. Owner's representative.

1.6 DELIVERY, STORAGE, AND HANDLING

- A. Deliver and store products in manufacturer's original containers, dry and undamaged, with seals and labels intact until ready for installation.
 - 1. Label uncured materials, both sheets and canned goods, with date of manufacturer and shelf life.
 - 2. Do not use creased or damaged sheets.
 - 3. Do not use products after end of shelf life.

- B. Store and handle materials to prevent damage.
 - 1. Place materials on pallets.
 - 2. Prevent creasing of rolled materials.
 - 3. Do not use polyethylene to cover stored materials (canvas tarpaulins are acceptable).
 - 4. Keep containers closed, except when removing materials from them.
- C. Keep materials at temperature between 40 degrees F (4.4 degrees C) and 80 degrees F (26.6 degrees C); if adhesives are exposed to lower temperature, verify useability with manufacturer before using.

1.7 PROJECT CONDITIONS

- A. Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer for optimum results. Do not install products under environmental conditions outside manufacturer's recommended limits.

1.8 WARRANTY

- A. Provide manufacturer's 10 year warranty for membrane leaks due to a manufacturing defect, covering materials, and/or repair and replacement labor.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Manufacturer: Provide products of Duradek/Durarail U.S. Inc., 1722 Iron Street, North Kansas City, MO 64116. Toll Free Tel: 800-338-3568. Tel: 816-421-5830. Fax: 816-421-2924. Email: duradekus@duradek.com ; Website: www.duradek.com.
- B. Manufacturer: Provide products of Duradek/Durarail Canada Ltd., 8288 129th Street, Surrey, BC V3W 0A6 Canada. Toll Free Tel: 866-591-5594. Tel: 604-591-5594. Fax: 604-591-3100. Email: duradek@duradek.com ; Website: www.duradek.com.
- C. Substitutions: Not permitted.
- D. Requests for substitutions will be considered in accordance with provisions of Section 01600.

2.2 MATERIALS

- A. Traffic Membrane: Duradek Ultra; polyester reinforced PVC membrane with ultra-violet resistance, for fully-adhered installation with heat-welded seams and perimeter attachment.
 - 1. Sheet Width: 72 inches (1828.8mm).
 - 2. Overall Sheet Thickness: 0.060 inch (1.5 mm).
 - 3. PVC Film Thickness: 0.050 inch (1.3 mm).
 - 4. Weight: 55 oz/sq yd (1864 g/sq m).
 - 5. Color:
 - a. Ultra: Arctic Quartz.
 - b. Ultra: Desert Quartz.
 - c. Ultra Legacy: Pebble Beach.
 - d. Ultra Legacy: Legacy Barnwood.
 - e. Ultra Legacy: Legacy Driftwood.
 - f. Ultra Forest Floor: Birch.
 - g. Ultra Forest Floor: Alder.
 - h. Ultra Forest Floor: Ash.
 - i. Ultra Cork: Espresso.

- j. Ultra Cork: Macchiato.
 - k. Ultra Cork: Graphite.
 - l. Ultra Heritage: Agate.
 - m. Ultra Heritage: Aspen.
 - n. Ultra Heritage: Sienna.
 - o. Ultra Heritage: Sunrise.
 - p. Ultra Supreme Chip: Granite.
 - q. Ultra Supreme Chip: Taupe.
 - r. Ultra Supreme Chip: Sonoma.
 - s. Ultra Classic: Sandstone.
 - t. Ultra Classic: Steel.
 - u. Ultra Surcoseal: Grey.
 - v. Ultra Surcoseal: Suede.
 - w. Ultra Okanagan: Flint.
 - x. Ultra Okanagan: Leather.
 - y. Ultra Okanagan: Linen.
 - z. As selected by Architect.
6. Slip Resistance: Tested to meet ADA requirements.
 7. Flammability (ASTM E 108 and UBC Std 15-2): Class A, when installed over non-combustible substrate.
 8. Flammability (CAN/ULC-S107): Class A, when installed over non-combustible substrate.
 9. Flammability (ASTM E 108 and UBC Std 15-2): Class C, when installed over combustible plywood substrate.
 10. Flammability (CAN/ULC-S107): Class C, when installed over combustible plywood substrate.
 11. International Building Code Compliance: Comply with 2012 International Building Code requirements for walking decks and ICC Acceptance Criteria for Walking Decks, as evidenced by current Evaluation Report prepared by ICC Evaluation Service (ICC-ES).
 12. International Building Code Compliance: Comply with 2012 International Building Code requirements for walking decks and ICC Acceptance Criteria for Membrane Roof Covering Systems, as evidenced by current Evaluation Report prepared by ICC Evaluation Service (ICC-ES).
 13. Comply with CAN/CGSB-37.54.
 14. National Building Code of Canada Compliance: Comply with National Building Code of Canada 2010, Part 9, Clause 9.26.2.1(1)(h), and CCMC Technical Guide for PVC Sheet Waterproofing (Exposed to Light Pedestrian Traffic), as evidenced by current Evaluation Report prepared by National Research Council, Canada Construction Materials Centre (CCMC).
 15. CMHC Approval: Approved by Canada Mortgage and Housing Corporation for use in construction financed or insured under the National Housing Act.
- B. Miscellaneous Accessories:
1. Provide PVC Coated Metal, Scuppers, Overflow Drains, Roof Drains, and Trims as required for proper installation.
 2. Provide Surface Conditioners, Adhesives, Sealants, Fillers, and Cleaners as required for proper installation.
 3. Provide mechanical fastening devices color coordinated to membrane color.
- C. Adjacent Flashings: Coordinate with flashing specified in Section 07620.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Do not begin installation until substrates have been properly prepared.

- B. Verify that deck is:
 - 1. Secure, well supported, solid, and in accordance with local code structural requirements.
 - 2. Properly sloped to drains, valleys, or eaves.
 - 3. Clean and smooth, free of depressions, waves, and projections.
 - 4. Dry and free of ice and snow.
- C. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Clean surfaces thoroughly prior to installation.
- B. Coordinate timing of installation to avoid construction traffic over completed traffic membrane surfaces.
- C. Wood Deck: Fill joints, knot holes, voids, and low areas with filler and sand smooth.
- D. Wood Deck: Cover with cementitious board meeting requirements of Class A approved application. Fill joints, knot holes, voids, and low areas with filler and sand smooth.
- E. Concrete Deck: Fill surface imperfections and variations with leveling compound. Test for and remove surface contaminants.
- F. Coordinate installation with installation of drains and similar accessories.
- G. Install flashings and accessories. Seal around all penetrations, drains, and edges.
- H. Membrane shall not come in contact with bituminous materials or polystyrene insulations. Contact manufacturer for additional information.
- I. Prepare surfaces using the methods recommended by the manufacturer for achieving the best result for the substrate under the project conditions.

3.3 INSTALLATION

- A. Install in accordance with manufacturer's instructions and applicable codes.
- B. Install in accordance with CGSB-37-GP-55M.
- C. Do not install when temperature is below 25 degrees F (minus 3.8 degrees C) or above 98 degrees F (36.6 degrees C). Do not install when winds are gusting over 30 mph (48.3 kph).
- D. Do not dilute primers, adhesives, coatings, or sealants.
- E. Install membrane with minimum number of seams possible. Overlap seams 3/4 inch (19 mm), to shed water; heat-weld all seams.
- F. Adhere membrane to substrate.
- G. Mechanically fasten all perimeter edges and penetrations.

3.4 CLEANING

- A. Clean soiled areas in accordance with manufacturer's recommendations.

3.5 PROTECTION

- A. Protect installed products until completion of project.
- B. Avoid construction traffic over completed traffic membrane surfaces.
- C. Touch-up, repair or replace damaged products before Substantial Completion.

END OF SECTION