



Mapecoat Deck S
Acrylic Urethane Waterproofing Sealer for Concrete and Masonry

SECTION 07 18 13
PEDESTRIAN TRAFFIC COATINGS

PART 1 GENERAL

1.1 SECTION INCLUDES

Products for maintenance of concrete, including the following:

1. Products for painting and coating on deck applications.

1.2 RELATED SECTIONS

- A. Section 03 53 00 – Concrete Topping

1.3 SUBMITTALS

- A. Submit under provisions of Section 01 30 00 - Administrative Requirements.
- 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. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square representing actual product, color and patterns.

1.4 QUALITY ASSURANCE

- A. Manufacturer Qualifications: Minimum 5 years' experience in manufacturing similar products.
- B. Installer Qualifications: Minimum 2 years' experience in installing similar products.
- C. Source Limitations: For repair products, obtain each color, grade, finish, type and variety of product from single source and from single manufacturer with resources to provide products of consistent quality in appearance and physical properties.
- D. Mock-Up: Provide a mock-up for evaluation of surface preparation techniques and application workmanship.
 1. Finish areas designated by Architect.
 2. Do not proceed with remaining work until workmanship is approved by Architect.
 3. Refinish mock-up area as required to produce acceptable work.

1.5 PRE-INSTALLATION MEETINGS

- A. Convene at least two weeks prior to starting work of this section.

1.6 DELIVERY, STORAGE AND HANDLING

- A. Deliver and store products in manufacturer's unopened packaging bearing the brand name and manufacturer's identification until ready for installation.



- B. Handling: Handle materials to avoid damage.

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 SEQUENCING

- A. Ensure that products of this section are supplied to affected trades in time to prevent interruption of construction progress.

PART 2 PRODUCTS

2.1 MANUFACTURERS

- A. Product Performance:

Tensile strength – ASTM D2370	1,800 psi (12.4 MPa)
Impact resistance – ASTM D2794	Intrusion 120 in. lb.
Solids, by weight	43.5% ± 1.5
Solids, by volume (pastel tint base)	29.0% ± 1.0
- B. Acceptable Manufacturer:

MAPEI North America
1144 E. Newport Center Drive; Deerfield Beach, FL 33442
Toll-Free for CRS Technical Services: Tel. 888-365-0614
Email: CRS@mapei.com
Web: www.mapei.com
- C. Requests for substitutions will be considered in accordance with provisions of Section 01 60 00 - Product Requirements.
- D. Substitutions: Not permitted.

2.2 CONCRETE OVERLAYMENT

- A. Water-based, urethane-modified, acrylic coating.
 - 1. Product: Subject to compliance with requirements, provide MAPEI Corporation; Mapecoat Deck S.
 - 2. Product shall be non-redispersible.
 - 3. Tensile Strength: Not less than 1,800 psi (12.4 MPa) when tested according to ASTM D2370.

2.3 MISCELLANEOUS MATERIALS

- A. Portland cement: ASTM C150/C150M, Type I, II or III unless otherwise indicated.
- B. Water: Potable.



2.4 MIXES

- A. General: Mix products, in clean containers, according to manufacturer's written instructions.
 - 1. Do not add water, thinners or additives unless recommended by manufacturer.
 - 2. When practical, use manufacturer's premeasured packages to ensure that materials are mixed in proper proportions. When premeasured packages are not used, measure ingredients using graduated measuring containers; do not estimate quantities or use shovels or trowels as units of measure.
 - 3. Do not mix more materials than can be used within time limits recommended by manufacturer. Discard materials that have begun to set.

PART 3 EXECUTION

3.1 EXAMINATION

- A. Sound, stable, clean, frost-free and fully cured concrete, new and previously painted surfaces.
- B. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

3.2 PREPARATION

- A. Substrates should be clean and free of dirt, residue, oils, grease, curing compounds, laitance and any contaminant that may interfere with adhesion and should be prepared using engineer-approved methods.
- B. Ensure that there is adequate surface profile on the substrate to maintain adequate slip resistance, particularly any areas that may become wet.
- C. Mapefloor Filler may be added (at about 2 U.S. oz. per U.S. gallon, or 59 mL per 3.79 L) to the final topcoat for added slip resistance.
- D. Previously painted surfaces should be sound and well adhered, glossy surfaces need to be abraded to provide adequate key.
- E. Remove unsound masonry by wire brushing or mechanically chipping away material to provide a firm surface.
- F. New concrete should be allowed to cure for 28 days before application.
- G. Mechanically prepare the surface to a minimum concrete surface profile of CSP #2.

3.3 MIXING

Before product use, take appropriate safety precautions. Refer to the Safety Data Sheet for details.

- A. Slowly stir Mapecoat Deck S to ensure uniformity and minimize air entrapment.
- B. Mapecoat Deck S is ready to use. DO NOT DILUTE.



3.4 INSTALLATION

Read all installation instructions thoroughly before installation.

- A. Air, material and substrate temperatures during application must be between 40°F and 95°F (4°C and 35°C).
- B. Apply Mapecoat Deck S by roller or texture sprayer directly to the prepared substrate.
- C. Apply Mapecoat Deck S to achieve a wet film thickness (WFT) of 5 to 7 mils, which results in coverage of 230 to 320 sq. ft. per U.S. gal. (5.63 to 7.84 m² per L) per coat.
- D. If specified, apply Mapecoat Deck S Clear to achieve a WFT of 4 to 5 mils, which results in coverage of 320 to 400 sq. ft. per U.S. gal. (7.84 to 9.8 m² per L) per coat.
- E. Two coats are recommended to achieve optimum film build and hiding. Spread rates may vary depending on surface texture and porosity.
- F. Ensure that the application is always worked to a natural break and that a wet edge is maintained throughout the application.
- G. Roller application: Use a 1/4" to 3/8" (6 to 10 mm) nap roller cover. Always keep the roller loaded and moving slowly to avoid spatter or foaming. Allow to dry thoroughly before applying a second coat.
- H. Spray application: Use an airless sprayer with a 0.017 to 0.019 tip.

END OF SECTION