TREMCO

APPLICATION INSTRUCTIONS

TREMfloor™ Urethane Cement MF

A medium-duty finish urethane cement system.

1. PURPOSE

1.1 The purpose of this document is to establish uniform procedures for installing TREMfloor™ Urethane Cement MF, a medium-duty finish antimicrobial treated urethane cement flooring system.

1.2 The techniques involved may require modifications to adjust to jobsite conditions. Consult your Tremco Representative for specific design requirements.

2. SCOPE

2.1 This document will provide the necessary instructions for the application of TREMfloor™ Urethane Cement MF to qualify for the manufacturer's warranty. Tremco recognizes that site-specific conditions, weather patterns, contractor preferences, and system detailing may require deviation or alteration from these prescribed installation procedures. When such circumstances and situations exist on a project, Tremco reccomends that the local Tremco Sales Represntative or Technical Services be contacted for assistance and approval as required.

3. POSSIBLE SYSTEM COMPONENTS

- TREMfloor™ Urethane Cement Base A Single Pack
- TREMfloor™ Urethane Cement Hardener B Single Pack
- TREMfloor™ Urethane Cement Filler C
- Pigment Pack
- A standard unit of TREMfloor™ Urethane Cement MF includes one TREMfloor™ Urethane Cement Base A Single Pack (5 lb), one TREMfloor™ Urethane Cement Hardener B Single Pack (5 lb), one TREMfloor™ Urethane Cement MF Filler C (29 lb), and one Pigment Pack (1 lb).
    a. This unit covers approximately 22 sq ft when applied at 3/16" thickness.

4. STORAGE

4.1 Tremco reccomends TREMfloor™ Urethane Cement MF components to be stored in a dry environment between 60-80°F.

4.2 Keep products sealed until the product is ready to be applied.

4.3 Protect all components from weather or moisture.

4.4 Unopened components have a shelf life of 12 months from the manufacturing date.

5. SUBSTRATE PREPARATION

5.1 Surfaces to be coated should be sound and provide adequate strength for the proposed end use with a minimum compressive strength of 3000 psi.

5.2 Substrate should be surface dry and free from moisture.

5.3 Concrete substrate preparation must be done with the recommended mechanical devices and tools. Refer to the TREMfloor™ Urethane Cement Equipment List and/or consult Tremco Technical Services.

5.4 Blasting or scarifying removes laitance. Irregularities, damage and cracks can be filled with epoxy mortar or using your TREMfloor™ Urethane Cement system components. Mix one part Base A and one part Hardner B, with four parts Filler C to create a mortar to fill any irregularities.

5.5 Anchor grooves, at least ¼" wide and ¼" deep, must be cut at 6" perimeter along all walls, edges, pillars, doors, drainage channels, grid drains and penetrative joints.

5.6 All moving joints must pass through the coating and must be sealed tight. Anchor grooves must be cut on both sides of such joints. Welded joints and cracks in the concrete may be coated, but if movement occurs the coating will also crack.

5.7 The surface profile and levels should be appropriate for the system to be applied. Normally a minimum of CSP 4 - 5 is recommended for TREMfloor™ Urethane Cement. All residues must be removed to provide a dry, dust free open textured surface. Contact Tremco Technical Services if there are impurities, such as oils etc., in the concrete.

6. PRIMER

6.1 TREMfloor™ Urethane Cement MF does not normally require a primer. In the case of a highly porous substrate, apply FC sealer to minimize outgassing risk or contact Tremco Technical Services.

7. MIXING PROCEDURE

7.1 There are often several types of products at a workplace, sort the products separately to avoid mistakes and place the mix station near the installation area.

7.2 Do not split the components. Improper or poor mixing will jeopardize the result.

7.3 Pour Base A into a suitably sized mixing vessel and add the pigment pack. Mix with a slow-speed drill helical spinner for 20 seconds. (Please refer to the equipment and tools section.)

7.4 Add Hardener B and continue mixing for 30 seconds, then add Filler C while mixing. Ensure that all fillers and resins are scraped from the sides of the mixing vessel into the mixture to avoid bubbles/blisters developing in the applied floor. Continue mixing until a homogenous mixture is obtained (90 seconds). Consistent mixing time of batches is important to ensuring color consistency.

7.5 Before starting any other mixtures, clean out all residual material from the mixing vessel and dispose to avoid interfering with the working time of a future mixture.

8. APPLICATION PROCEDURE

8.1 After 1 minute of mixing, the mixed product should be poured-out evenly over the floor, using a notched rake (set to 3/16”), pin rake, or cam rake to achieve the desired thickness.

8.2 Apply TREMfloor™ Urethane Cement MF at approximately 22 sq ft/unit (3/16”).

8.3 The coating must be rolled with a spiked roller within 3 minutes of application to help remove air bubbles and level the surface. Late spike rolling will leave behind unwanted marks in the cured surface.

8.4 A trowel or smoother may be used to remove the traces of the rake or joint between mixes.

8.5 Apply the next mix within 3 minutes of the previous run to maintain the wet edge and a seamless join.

8.6 Maximum application width is determined by material and ambient temperature conditions, which affect the working life of the product and determines the speed of installation/man power.

9. TOPCOAT

9.1 Consult with your technical sales representative or Tremco Technical Services for available topcoat options.

10. CLEANING

10.1 Clean tools and equipment immediately after use in mineral spirit, acetone, or denatured alcohol.

11. CURING TIME

11.1 Installed TREMfloor™ Urethane Cement MF can be opened to light traffic after 12 to 14 hours and full traffic after 24 to 36 hours. Full Chemical cure takes 5-7 days.

12. MISCELLANEOUS

12.1 The temperature should be at least 60°F to achieve the best results during application. The temperature of the substrate should be at least 50°F, although a temperature of 60-80°F is recommended.

12.2 The temperature of the substrate should exceed the “dew point” by more than 5°F during application and hardening.

Tremco Construction Products Group (CPG) brings together the Commercial Sealants & Waterproofing and Roofing & Building Maintenance divisions of Tremco CPG Inc.; Dryvit, Nudura and Willseal brands; Prebuck LLC; Tremco Barrier Solutions, Inc.; Weatherproofing Technologies, Inc.; Weatherproofing Technologies Canada, Inc.; and Pure Air Control Services, Inc.

TREMCO

tremcosealants.com | 800.321.7906

TREMCO

Construction Products Group

3735 Green Rd. | Beachwood, OH 44122
800.321.7906 | tremcocpg.com