



# APPLICATION INSTRUCTIONS

## TREMfloor™ Urethane Cement SL

A self-leveling urethane cement system.

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### 1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for installing TREMfloor™ Urethane Cement SL, a self-leveling antimicrobial treated cementitious urethane flooring system.
- 1.2 The techniques involved may require modifications to adjust to jobsite conditions. Consult your Tremco Representative for specific design requirements.

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### 2. SCOPE

- 2.1 This document will provide the necessary instructions for the application of TREMfloor™ Urethane Cement SL 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 recommends that the local Tremco Sales Representative or Technical Services be contacted for assistance and approval as required.

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### 3. POSSIBLE SYSTEM COMPONENTS

- TREMfloor™ Urethane Cement Base A Double Pack
- TREMfloor™ Urethane Cement Hardener B Double Pack
- TREMfloor™ Urethane Cement SL Filler C
- Pigment Pack
- A standard kit of TREMfloor™ Urethane Cement SL include one TREMfloor™ Urethane Cement Base A Double Pack (10 lb), one TREMfloor™ Urethane Cement Hardener B Double Pack (10 lb), one TREMfloor™ Urethane Cement SL Filler C (40 lb), and one Pigment Pack (1 lb).
  - a. This unit covers approximately 63 sq ft when applied at 1/8" thickness.

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### 4. STORAGE

- 4.1 Tremco recommends TREMfloor™ Urethane Cement SL 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.

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### 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 3625 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 Tremco 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 1/8" wide and 1/8" 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 SL. 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.

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### 6. PRIMER

- 6.1 TREMfloor™ Urethane Cement SL 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.

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## 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. Heavy-duty mix equipment is highly recommended. (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.
- 7.5 Continue mixing until a homogenous mixture is obtained (90 seconds). Consistent mixing time of batches is important to ensuring color consistency.
- 7.6 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.

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## 8. APPLICATION PROCEDURE

- 8.1 The mixed product should be poured-out evenly over the floor and then applied to the desired thickness with a gauge rake. A trowel or smoother may be used to remove the traces of the rake or joins between mixes.
- 8.2 Apply TREMfloor™ Urethane Cement SL at approximately 63 sq ft/unit (1/8")
- 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 Apply the next mix within 3 minutes of the previous run to maintain the wet edge and a seamless join.
- 8.5 Maximum application width is determined by the material and ambient temperature conditions, which affect the working life of the product, and determines the speed of installation/man power.
- 8.6 If broadcasting TREMfloor™ Urethane Cement SL system, give 5-10 minutes to allow the system time to begin firming. Broadcast to refusal using 20-40 mesh silica sand. Tremco recommends 1 pound silica sand for each sq ft and use of a topcFor more information please contact Tremco Technical Services.

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## 9. TOPCOAT

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

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## 10. CLEANING

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

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## 11. CURING TIME

- 11.1 Installed TREMfloor™ Urethane Cement SL 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.

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## 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.

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