

## APPLICATION INSTRUCTIONS

### 1. Purpose

- 1.1 The purpose of this document is to establish uniform procedures for installing TREMproof® 545 and 560 below grade Waterproofing Membrane..
- 1.2 The techniques involved may require modifications to adjust to jobsite conditions. Tremco recognizes that site-specific conditions, weather patterns, contractor preferences, and membrane detailing, may require deviation or alteration from these prescribed installation procedures. When such circumstances exist on a project, Tremco recommends that the local Tremco Sales Representative or Technical Services be contacted for assistance and approval as required.

### 2. Scope

- 2.1 This document will provide the necessary instructions for the application of TREMproof 545 and 560 and its related below grade Waterproofing System components.

### 3. Possible System Components

Recommended Materials and their use are as follows. For more information on the following materials please contact your local Tremco Representative or visit our website for product specific data sheets and application instructions at [www.tremcosealants.com](http://www.tremcosealants.com).

- Dymonic® 100
- ExoAir® Termination Mastic
- TREMproof 260 R
- Paraterm® Bar
- TREMDrain® Series Drainage Mats and Protection Boards
- Tremco Epoxy Primer

### 4. Limitations

- 4.1 TREMproof 545 and 560 products are not to be installed over ponding/standing water, snow, ice, frost, or contaminated substrates.
- 4.2 If the backfill contains substantial amounts of either lava rock, basalt, or any other coarse or highly abrasive materials, a protection course or drainage mat may be required. Contact your local Tremco

Representative at 866-209-2404 for details. Concrete that is to receive waterproofing shall be water-cured.

- 4.3 If submerged conditions exist, contact your local Tremco Representative at 866-209-2404 for details.
- 4.4 TREMproof 545 and 560 is not to be used as a permanently exposed surface. Contact your local Tremco Representative for project specific requirements.
- 4.5 TREMproof 545 or 560 can be applied to concrete or CMU walls, when applying to other substrates, contact your local Tremco Representative for project specific requirements.

### 5. Storage

- 5.1 Store TREMproof 545 and 560 in original, undamaged packages in a clean, dry, protected location with temperatures not exceeding 100 °F (37 °C).
- 5.2 Protect from Moisture.
- 5.3 Store on a skid or pallet and cover with polyethylene or tarp.

### 6. Substrate Preparation

- 6.1 Proper Connections to other envelope systems such as the waterproofing, flashing, air barrier, and window/curtain wall systems shall be documented and approved by each manufacturer.
- 6.2 Surface to be waterproofed must be clean, firm, and free from release agents, dust, mud, loose mortar, wires, fins, metal projections or any other substances that might prevent placement and bonding of the membrane. Substrate should have a CSP profile of 1 to 5, if greater than 5 please consult your Tremco Representative. All porous substrates shall have a moisture content not to exceed 15% at time of application. CMU walls shall have all joints filled and struck flush. Please visit [www.tremcosealants.com/technical-resources/technicalbulletins.aspx](http://www.tremcosealants.com/technical-resources/technicalbulletins.aspx) to review additional information.
- 6.3 Metal Surfaces require a pull-test to validate proper adhesion and performance. Metal surfaces need to be clean and free of oils or other contaminants.

### 7. Detail Work

- 7.1 All Inside corners, i.e. wall to footer connections must have a ½" x ½" (25 mm x 25 mm) cant bead of Dymonic 100 before application of the membrane.
- 7.2 Apply cant bead of Dymonic 100 minimum ½" x ½" (25 mm x 25 mm) around protrusion onto substrate and penetrating item. Install membrane tight to edge of Dymonic 100. Apply Termination Mastic

100 mils thick 4" (100 mm) onto penetrating item, and face of membrane.

- 7.3 Wall cracks over 1/16" (1.5 mm) wide and shall be detailed with Dymonic 100.
- 7.4 TREMproof 545 and 560 may be applied over un-cured Dymonic 100 however, care must be taken not to displace un-cured Dymonic 100.
- 7.5 If expansion joints exist contact your local Tremco Representative for details.
- 7.6 Paraterm bar and Termination Mastic may be used for terminations.

## 8. Membrane Application

- 8.1 On backfilled walls, TREMproof 545 and 560 can be applied vertically or horizontally. TREMproof 545 and 560 membrane shall be lapped onto previous sheet a minimum of 2" (51 mm), and all horizontal laps should be properly shingled a minimum of 2" (51 mm).
- 8.2 TREMproof 545 and 560 may lap onto horizontal surfaces and terminate. If application consists of full horizontal membrane coverage consult your Tremco Representative.
- 8.3 TREMproof 545 and 560 must be mechanically roll pressed with a J-Roller to ensure the membrane develops sound contact to the substrate.
- 8.4 When required, treat seams with ExoAir Termination Mastic or TREMproof 260 R, lapping minimum 1" (25 mm) onto each sheet of TREMproof 545 and 560 while maintaining 1/16" (1.5 mm) thickness of ExoAir Termination Mastic or TREMproof 260 R.
- 8.5 A termination bar may be used, when required to, at grade. To terminate the membrane at the base, carry membrane min 6" onto footer. If logistical conditions arise that prevent this contact your Tremco Representative for appropriate termination detail.
- 8.6 Patch tears and inadequately lapped seams with TREMproof 545 or 560. Clean TREMproof 545 or 560 with a damp cloth and dry. Slit fishmouths and repair with a patch extending 6" (150 mm) in all directions from the slit and seal edges of the patch with ExoAir

Termination Mastic or TREMproof 260 R. Inspect the membrane thoroughly before covering and make any repairs.

- 8.7 TREMDrain drainage products are recommended for active drainage of the membrane. See TREMDrain product information.
- 8.8 Attachment of drainage can be accomplished through a surface mounted adhesive or self-adhered insulation stick pins.
- 8.9 All outside corners must have minimum 6" (152 mm) of membrane on both surfaces of corner.

## 9. Backfill

- 9.1 Use care during backfill operation to avoid damage to the waterproofing system. Follow generally accepted practices for backfilling and compaction.

### 1217/TP500AI-BG

Please refer to our website at [www.tremcosealants.com](http://www.tremcosealants.com) for the most up-to-date application instructions.

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