



APPLICATION INSTRUCTIONS

TREMproof®
PrePly™
Below Slab-On-Grade

1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for installing TREMproof PrePly membranes below slab-on-grade.
- 1.2 The techniques involved may require modifications to adjust to job site 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 as required.

2. SCOPE

- 2.1 This document will provide the necessary instructions for the application of TREMproof PrePly membranes to qualify for the manufacturer's warranty.

3. POSSIBLE SYSTEM COMPONENTS

- 3.1 Recommended materials and their use are as follow. For more information on the following materials, please contact your local Tremco Sales Representative or visit our website for product specific data sheet and application instructions at www.tremcosealants.com.
 - TREMproof PrePly Waterproofing Membrane
 - TREMCO® BG Grip Tape
 - TREMproof GWS Gunnable Water Stop, or other approved material
 - Superstop Waterstop
 - TREMproof Amphibia WS
 - Paraterm™ Bar
 - Dymonic® 100 Sealant
 - TREMDrain® Series Drainage Mat

4. LIMITATIONS

- 4.1 Due to the variables present when installing shotcrete, all shotcrete applications must be first reviewed and approved by Tremco prior to installation.
- 4.2 TREMproof PrePly should not be installed over stagnant or ponding water, snow, ice, frost, or contaminated substrates.
- 4.3 Reinforced concrete structures need to be designed to withstand hydrostatic pressures.
- 4.4 If expecting heavy rainfall prior to overburden placement, a 6 to 10 mil poly may be placed over the TREMproof PrePly for additional protection.
- 4.5 TREMproof PrePly should not be left exposed for more than 90 days.

5. STORAGE

- 5.1 Store in a dry place protected from UV and humidity, preferably in a horizontal position. Do not double stack pallets.

6. SUBSTRATE PREPARATION

- 6.1 TREMproof PrePly can be installed in conjunction with any of the four typical slab-on-grade systems with equal performance. These include simple slabs, mat slabs on grade, mat slabs with protection slabs over top, and mat slabs with mud slabs beneath.
- 6.2 Waterproofing best-practices dictate that in hydrostatic conditions, TREMproof PrePly should be installed beneath foundation elements like footers, structural mat slabs, and/or but not limited to grade beams. On projects where hydrostatic conditions will not occur, TREMproof PrePly should be installed on top of or around structural foundation elements. Please consult your Tremco Sales or Technical Representative for questionable conditions prior to installation.
- 6.3 The substrate should be prepared by either compacting the original earth, compacting a granular base (typically No. 57 Stone, or, average particle size of $\sim 3/4"$), or by installing a mud slab, meeting a minimum modified 85% proctor density per the engineer's design.
- 6.4 All geotechnical, drainage, annular/equipment spaces, or other ancillary elements that will reside beneath the slab to be waterproofed shall be completed prior to the installation of TREMproof PrePly. Examples include pilings, sump pits, elevator pits, or other elements that would typically be constructed prior to placement of a structural mat slab.

7. DETAIL WORK

- 7.1 All penetrations shall be secured prior to detailing. For single pipe penetrations, refer to Tremco details. Multiple penetrations shall be spaced a minimum of 6" (15 cm) apart to allow for proper detailing. If 6" (15 cm) spacing is not available, contact Tremco for a job-specific recommendation. If sealed or cored pipes are present, contact Tremco.
- 7.2 For structural subgrade penetrations (like pile caps/heads), please refer to Tremco's detail drawings for treatment options.
- 7.3 Following good concrete industry practices, a waterstop should be used at all construction cold joints. Install TREMproof Amphibia WS a minimum of 2" (5 cm) from face of wall or floor slab. Butt ends together and fasten with nails and 1" (2.5 cm) washer every 12" (30 cm) O.C. if installing in keyways. When attaching to thru wall or slab penetrations, please consult Tremco's library of detail drawings; some applications require secondary fastening (i.e.—a wire or zip tie securing the TREMproof Amphibia WS around the penetration if applicable).

8. MEMBRANE APPLICATION

- 8.1 TREMproof PrePly shall be installed with the white, adhesive layer and selvage edge adhesive facing the installer. Pre-cut the membrane to the size required – the sheets can be folded and cut in any direction.
- 8.2 All seams for below slab on grade applications should be overlapped a minimum of 3" (5 cm). The membrane features an adhesive selvage edge for seam treatment. The seam shall then be compressed with a 2" x 2" (5 cm x 5 cm) steel seam roller using pressure sufficient to adequately adhere the top layer to the bottom. Care must be taken to minimize wrinkles, fishmouths, or other irregularities in the adhered edges to maximize seam performance.
- 8.3 For seams in areas of the membrane without an adhesive selvage edge, Tremco BG Grip Tape should be adhered to the white "adhesive" layer facing the installer and pressed down or rolled to ensure full adhesion. The white adhesive layer must be clean, dry and free of debris prior to the installation of Tremco BG Grip Tape. Care must be taken to minimize wrinkles, fishmouths, or other irregularities in the adhered tape to maximize seam performance.
- 8.4 If additional seam strength is required for horizontal installations to receive concrete, the use of soil nails and/or crown/carton staples is permitted. The number of additional mechanical fasteners should be minimized to ensure the highest system performance. Carton staples should have 1-1/4" wide crowns and 5/8" or 3/4" long legs. Carton stapler should be setup to curl staple legs creating a clinch-fit connection between adjacent membrane sheets.
- 8.5 For non-continuous pours, ensure the TREMproof PrePly sheets extend 12" to 18" beyond the termination of any placement. This will ensure that a sufficient length is accessible for subsequent tie-in or termination procedures.
- 8.6 Please refer to Tremco's detail drawings for various penetration detailing options.
- 8.7 Terminate around perimeter or tie-in to wall application of system. Ensure that the TREMproof PrePly extends 12" to 18" beyond the termination of the concrete placement. Please refer to Tremco's detail drawings for various termination and/or tie-in options.

- 8.8 If required, install the proper TREMDrain drainage mat. This should be done in accordance with the associated application instructions, which are available on Tremco's website. Contact your Tremco Sales Representative or Technical Services for assistance in making the proper selection for the application.
- 8.9 CONCRETE PLACEMENT
- 8.10 Repair any damaged TREMproof PrePly prior to concrete placement, after steel reinforcement is tied in place. Since damage severity and type can vary greatly from job to job, please contact your local Tremco Sales or Technical Representative for a case-specific repair recommendation.
- 8.11 Concrete to be placed should not be dropped from higher than 4' (1.2 M) directly on TREMproof PrePly. Tremco highly recommends that concrete be placed or pumped onto membrane as close to the surface as possible to minimize the chance of damage.
- 8.12
- 8.13 Please refer to our website at www.tremcosealants.com for the most up-to-date Product Data Sheets. NOTE: All Tremco Safety Data Sheets (SDS) are in alignment with the Globally Harmonized System of Classification and
- 8.14 Labelling of Chemicals (GHS) requirements.
- 8.15 TPPP_BSOG_AI/0626

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