



# APPLICATION INSTRUCTIONS

## TREMproof® AMPHIBIA BACKFILLED WALL

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### 1. PURPOSE

- 1.1 The purpose of this document is to establish uniform procedures for installing TREMproof Amphibia on backfilled wall applications.
- 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.

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### 2. SCOPE

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

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### 3. POSSIBLE SYSTEM COMPONENTS

- 3.1 Recommended materials and their use are as follows. 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](http://www.tremcosealants.com).
  - TREMproof Amphibia waterproofing membrane
  - Tremco® BG Grip Tape
  - Ultraseal P201A Hydro-Reactive Mastic or other approved material
  - Superstop Waterstop
  - Paraterm™ Bar
  - Para Stick N Dry®
  - Paraprimer®
  - Paragranular®
  - Paramastic®
  - Dymonic® 100 Sealant
  - TREMDrain® Series Drainage Mats
  - ExoAir® 110AT

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### 4. LIMITATIONS

- 4.1 The TREMproof Amphibia membrane should not be installed over ponding or standing water or contaminated substrates.
- 4.2 TREMproof Amphibia, for backfilled wall applications, requires a minimum of 24 pounds per square foot of compaction/confinement to be effective.
- 4.3 **Contact your local Tremco Sales Representative or technical services if the job is in the water table and a submersed condition exists.**

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### 5. STORAGE

- 5.1 Protect from moisture.
- 5.2 Store on a skid or pallet and cover with a tarp or polyethylene.
- 5.3 Do not double stack pallets.
- 5.4 Do not store out in the sun.
- 5.5 Store the Tremco TREMproof Amphibia and accessories in original undamaged packaging in a clean, dry, protected location with a temperature range between 40°F to 110°F (5°C to 43°C).

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## 6. SUBSTRATE PREPARATION

- 6.1 The concrete surface to be waterproofed should be smooth, firm, and free from mud, loose mortar, wires, fins, metal projections, debris, or any other substances that might interfere with the placement of the membrane.
- 6.2 CMU (masonry) walls shall have all joints filled and struck flush. Any voids shall be patched with mortar, a non-shrinking grout, or other approved patching material.
- 6.3 Parge coating is not required unless the substrate is extremely rough and irregular. Contact Tremco for recommendations on specific projects.
- 6.4 TREMproof Amphibia may be installed over damp or green concrete surfaces.
- 6.5 All honeycombs or voids and irregularities which exceed  $\frac{3}{4}$ " (6.4 mm) in depth shall be repaired with Dymonic 100, Paramastic, or concrete mortar.

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## 7. DETAIL WORK

- 7.1 Install a continuous 2" (5 cm) cant of Ultraseal P-201A Hydro-Reactive Mastic, Paragranular, Paramastic, or Dymonic 100 where the wall meets the footing and at all other vertical to horizontal junctures.
- 7.2 Install a continuous 1" (2.5 cm) vertical cant of Ultraseal P-201A Hydro-Reactive Mastic, Dymonic 100 or Paramastic at all vertical wall inside corners.
- 7.3 Please consult [www.tremcosealants.com](http://www.tremcosealants.com) for detail drawings showing installation and typical transitions and tie-ins. For job specific details or questions, please contact Tremco Technical Services at (866) 209-2404.
- 7.4 Following good concrete industry practices, a waterstop should be used at all construction cold joints. Install Superstop (when applicable) a minimum of 2" (5 cm) from outer face of wall assembly. It is recommended to apply Paraprimer to clean surface prior to adhering the Superstop on vertical surfaces. Primer is recommended for horizontal surfaces. Remove release paper to expose adhesive. Butt ends together and fasten with nails and 1" (2.5 cm) washer every 12" (30 cm) O.C.

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## 8. APPLICATION PROCEDURE

- 8.1 TREMproof Amphibia shall be installed against backfilled walls with the white, "nonwoven" fleece fabric layer against the concrete substrate and the black EPDM side facing the installer.
- 8.2 TREMproof Amphibia must be installed with minimum 2" (5 cm) overlapped seams running either vertically or horizontally or a combination with equal performance. Seams shall be shingle lapped to shed water away from the seam. The upper sheets are seam lapped over the lower sheets in all configurations.
- 8.3 Fasten with nails and 1" (2.5 cm) washers every 36" to 48" (91.4 cm to 121.0 cm) O.C. a maximum 1-1/2" (3.0 cm) in from the outside edge of the lap. Taping all seams with the ExoAir 110AT is required. The tape should be wide enough to cover all nail heads and washers. The membrane must be clean prior to application of the ExoAir 110AT. The tape should be pressed or rolled down firmly to ensure full adhesion. Care should be taken to minimize any fishmouths, wrinkles, or other irregularities in the adhered tape to maximize seam performance. Termination with the Paraterm Bar and Dymonic 100 sealant of the TREMproof Amphibia membrane occurs at or immediately below the finished grade. Complete installation at penetrations as required per Tremco's published details. Refer to Tremco standard details for treatment of seams.
- 8.4 The TREMproof Amphibia membrane seldom requires additional protection unless the backfill contains substantial amounts of either lava rock, basalt, or any other coarse, sharp, abrasive materials. Contact your Tremco Sales Representative or Technical Service for recommendations.
- 8.5 Following good industry practice, a TREMDrain Series drainage mat should be installed prior to backfilling.

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## 9. PROTECTION

- 9.1 Even though the EPDM membrane is robust and weather resistant, it is not intended to be left permanently exposed to UV and inclement weather conditions. It is advisable to place and backfill as soon as possible after installation.

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## 10. INSPECTION

- 10.1 Compact backfill to at least 85% modified proctor density.
- 10.2 The TREMproof Amphibia membrane requires minimum 24 psf compaction/confinement.

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## 11. REPAIR

11.1 Examine the membrane for any holes, slices, or defects from the installation. Apply a new piece of the TREMproof Amphibia membrane over the damaged area extending outward from the damage a minimum 3" (7.6 cm) in all directions. Nail the new application making sure it is secured firmly, flat and sound to the existing membrane with 1" (2.5 cm) nails and washers. Install the ExoAir 110AT tape a minimum 1-1/2" (3.0 cm) on both sides of the seam centered over the seam.

11.2 For a job site observation please contact your local Tremco Sales Representative.

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