



Application Instruction

TREMproof® 250GC Cold Fluid-Applied Membrane Below Grade Waterproofing

1. Purpose

1.1 The purpose of this document is to establish uniform procedures for installing TREMproof® 250GC cold fluid-applied membrane in below-grade waterproofing applications.

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

2. Scope

2.1 This document will provide the necessary instructions for the application of TREMproof® 250GC to qualify for the manufacturer's warranty. Tremco recognises that site specific conditions, weather patterns, contractor preferences and membrane detailing may require deviation or alteration from these prescribed installation procedures. When such circumstances and situations exist in a project, Tremco recommends that the local Tremco Sales Representative or Technical Services can be contacted for assistance and approval as required.

3. Conditions

3.1 Surface to be waterproofed may be dry or damp, and shall be clean, sound and free of all contaminants which may interfere with adhesion or proper curing. If release agents are present, they must be removed prior to the application of TREMproof® 250GC.

3.2 Concrete slabs should be light steel troweled followed by a fine broom or equivalent finish. Concrete surface shall be free of voids, exposed aggregate areas, honey combs, splatters, ridges and other projections or depressions which preclude a smooth and level surface. All reinforcing including cut off rebar shall be covered by a minimum of 20mm of concrete, epoxy or approved repair mortar.

3.3 Concrete that is to receive waterproofing shall be water cured. Consult Architect or Engineer for a

minimum cure time on concrete before water cure can be stopped and foot traffic is permitted. Allow a minimum of 24 hours for concrete surface to dry after stopping water cure on decks or removing forms from walls or underside of decks. In the event it is necessary to use a curing agent, contact your local Tremco Sales Representative.

Most dissipating type of curing compounds require removal before membranes can be successfully applied. Numerous manufacturers claim their curing compounds will not affect the adhesion of membranes and sealants and in many cases they may not. Sometimes the breakdown of the curing compound does not happen and/or the residual materials are left on the concrete and can cause adhesion problems with the membrane. Tremco recommends the use of water curing in areas where membranes and sealants are to be used. Tremco will not accept responsibility for adhesion failures due to curing compounds.

3.4 Following good drainage practices, the structural slab shall be sloped to drain a minimum of 1 in 100.

3.5 All penetrations shall be encased in concrete. Penetrations must be solid grouted place. No flexible pipe or corrugated pipe of any type shall be used for a through slab penetration. Penetrations shall be spaced a minimum of 50mm apart to allow for detail work around penetration. All copper piping shall be sleeved with sleeve extending through slab and above any planter fill. The waterproofing of the inside of the sleeve is the responsibility of others.

3.6 Sidewalls of expansion joints shall be parallel, smooth and straight. Expansion joints running through planters, walls, water features or at building to deck shall have a curb to curb construction approved by Tremco, waterproofing contractor and architect/engineer.

3.7 All block work to be waterproofed is to be rendered or an acceptable cementitious coating approved by Tremco. All block work walls must have all joints solid grouted with no voids.



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4. Conditions

4.1 Recommended materials and their use are as follows. TREMproof® 250GC: is an aliphatic, rapid curing, high solids, VOC compliant modified polyurethane waterproofing membrane. It can be applied to damp and Green concrete. TREMproof® 250GC is a one-part moisture curing elastomer.

4.2 Tremco DualFlex: is a reinforcing flashing that consists of a central strip of stretchy SEBS rubber flanked on either side by an absorbent non-woven felt.

Tremco Protection Board: can be either Tremboard capsulated sheet or roll, Tremco Coreflute board or Tremblock rubber vibration isolation mat.

5. Detail Work

5.1 All shrinkage cracks shall be treated with a 1.7mm (WFT) coating of TREMproof® 250GC, 150mm.

5.2 Moving structural cracks greater than 1.5mm shall be routed out and caulked with Dymonic NT, stripped with bond breaker by a detail coat of TREMproof® 250GC.

5.3(a) 25mm x 1.7mm (WFT) Dymonic NT Fillet shall be installed at all horizontal-vertical junctures and projections. Integral flashing shall be installed to the height indicated on the drawings.

5.4 Expansion joints and other areas of potential high movement may require embedding Tremco DualFlex. Embed Tremco DualFlex into a 0.85mm (WFT) detail coat of TREMproof® 250GC. An additional 0.85mm of TREMproof® 250GC is then placed on top of the Tremco DualFlex to fully coat the felt material and embed it into the membrane.

At overlaps of one section of Tremco DualFlex to another, overlap the two meeting sections at least 75mm. Seal the overlap with TREMproof® 250GC.

5.5 All detailing must be cured a minimum of 12 hours prior to the application of the membrane.

5.6 Detailing shall be wiped clean with xylene prior to the application of the membrane.

6. Membrane Application

6.1 Standard Application—Vertical or Horizontal

6.1.1 TREMproof® 250GC shall be roller, squeegee or trowel applied at the rate 1.7mm per 1/m² to provide a thickness of 1.7mm (WFT) = 1.5mm DFT.

6.2 High Build Application—Horizontal

6.2.2 Multi-Lift System—Apply the first coat of TREMproof® 250GC at 1.7mm (WFT) with a coverage rate of 1.7 litres per square meter. This may be followed by setting Tremco Fabric into the wet membrane, overlapped a minimum of 25mm. Allow TREMproof® 250GC to cure to a firm rubber, minimum 4 hours at 23°C, 50% R.H., then apply a second coat of 1.7mm (WFT) of TREMproof® 250GC. When not using fabric let the membrane cure to a firm rubber overnight at standard conditions. Make sure membrane is clean before second application. If the membrane has been exposed for more than 24 hours, priming with Vulkem 191 primer is recommended before the second application. The primer shall be dry with a surface tack before applying TREMproof® 250GC.

6.3 The cure rate if TREMproof® 250GC may be accelerated by adding water. Water for every 120ml (18.9 L) of TREMproof® 250GC. Mix the material by producing a vortex close to the surface of the membrane and add the water. Following the addition of water, continue mixing the membrane to evenly disperse the added water for up to 1 minute. Exceeding the recommended 1 minute of mixing may result in introducing excessive amount of air in the membrane. Exceeding the recommended dosage of water per pail of membrane may result in a reduction of work time.

Temperature	Approx. cure time*
27°C	3 to 4 hours
4 - 27°C	6 to 12 hours
4°C	72 hours

*Dependent upon environment conditions i.e. substrate temperature, humidity, wind chill etc



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6.4 An approved protection course and/or TREMDrain Series drainage mat may be placed after membrane is cured to a firm rubber set, minimum 4 hours at 23°C, 50% R.H.

6.5 If flood testing is required, the membrane should be cured to a firm rubber set (36 hour minimum) before flooding. Flood with a minimum of water for 24 hours. As an alternative, Electronic Field Vector Mapping may also be used.