



**INSTALLATION INSTRUCTIONS FOR
PRO™ (SOLVENT BASED)
EXTERIOR BELOW-GRADE COMMERCIAL
WATERPROOFING MEMBRANE**

Product:

The Mar-flex Pro™ Exterior Below-Grade Waterproofing Membrane is a tested and proven membrane for commercial applications.

Uses:

The Mar-flex Pro is ideal for new construction waterproofing of below-grade commercial walls of poured concrete. In addition, it can be used in horizontal applications such as parking garages, bridge decks, and plaza decking as well as retaining wall applications.

Spray Equipment:

Mar-flex provides spray equipment designed to spray the Mar-flex membranes with optimum efficiency. See your sales representative for pricing.

For maximum output of product, Mar-flex recommends the use of airless spray equipment with a Speeflo Hydra M 4000™ or the Speeflo PowrTwin™ 8900_{GH} or equal.

To ensure efficient flow of the material during spray applications, Mar-flex recommends using 125' of ½" high-pressure hose with insulation and abrasion sleeve from the pump connecting to a 25' of 3/8" high-pressure hose with insulation and abrasion sleeve.

The 3/8" hose will connect to an airless spray gun, such as the Speeflo SS5. The suggested spray tip for the Mar-flex Pro is the Graco Heavy Duty (GHD) Reverse-A-Clean (RAC) 635.

Spray Coverage:

For the best performance and optimum usage of the Mar-flex Pro, spray application is recommended. Note: If spray equipment is not available, the Mar-flex Pro can be brushed, rolled or troweled on¹.

Depending on porosity and roughness of surface, coverage rate for spray application should be 5 - 6 gallons per 100 ft².

Final application coat should be as follows depending on the depth of the walls:

In a 10' wall application, final application coat should be at a 100-mil wet membrane thickness. This will result in a minimum of an 80-mil dry thickness.

In a 20' wall application, final application coat should be at a 120-mil wet membrane thickness. This will result in a minimum of a 100-mil dry thickness.

In a 30' wall application, final application coat should be at a 140-mil wet membrane thickness. This will result in a minimum of a 120-mil dry thickness.

The wet mil thickness can be determined by using a standard wet mil gauge.

General:

At the job site ground truck, barrels and all spray equipment to the ground.

Approved heated tanks, if used, should be vented in accordance with the tank manufacturer's specifications and instructions.

Do not apply the Mar-flex Pro when the air temperature is below 0° F.

Do not apply the Mar-flex Pro to wet or frozen surfaces.

Poured concrete walls must be set before applying the Mar-flex Pro.

All walls must be clean and dry to the touch.

Required Prep Work²:

Ensure that footings are exposed and that they are free of loose materials or water. If needed, sweep the tops of footers and clear away any debris. Dry footings prior to application with a weed burner or similar.

Remove below grade wall ties inside the basement and out. Patch all outside below grade wall ties with Mar-flex Mastic or similar.

Poured concrete walls must be free of voids and honeycombs. Any such areas, if present, should be covered with the Mar-flex Mastic or similar mastic.

Make sure all brick ledges are properly capped and sealed.

Make sure that all existing pipe, conduit or any other penetration through the wall are properly sealed on the outside with water plug, hydraulic cement or similar product.

If penetrations are to be added after the spray application, it is still the applicators responsibility to ensure these areas are sealed. If this responsibility is passed onto the builder, inform the builder they are responsible and inform them of the proper procedure to seal these areas.

Systems and Components:

The Mar-flex H-System for Above/At Grade Waterproofing consists of the Mar-flex Pro Exterior Below-Grade Waterproofing Membrane and the Mar-flex Drainage Board Type III™.

The Mar-flex V-System for Below Grade Commercial Waterproofing consists of Mar-flex Pro Exterior

¹ See 5-Gallon Bucket Installation Instructions

² All prep work is required to qualify for warranty coverage



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Below-Grade Waterproofing Membrane and one of the specified Mar-flex Commercial drainage rolls or board.³

Spray Application:

The tank temperature of the material should be at 80° – 100°F and the final spray temperature of the material 140° - 170°F.

A pressure of 3000 psi is required to spray the membrane.

Each 10' lift should be sprayed a section at a time. Use multiple, uniform passes, alternating from horizontal to vertical.

After spraying various sections of the wall, check for thin spots and voids in the spray application. Re-spray any such areas as necessary to obtain proper mil thickness.

Application should be made to all below-grade walls. This includes any wall that would be considered a common wall to habitable/storage areas.

Required Board Application⁴:

The Mar-flex 1-3/16th? or 2-3/8th? Drain & Dry Board™, the Mar-flex 1? or 2? Shockwave by Mar-flex™ or the Mar-flex Geo-Mat™ Plus Drainage Roll should be installed immediately after spraying each section of the wall with the Mar-flex Pro.

After building the membrane up to the required mil thickness⁵, place the drainage board against the sprayed wall. Press firmly onto wall.

Note: Please see the individual instruction sheet for the proper way to install the board or roll that you are using.

Backfilling/Drainage:

Backfilling should begin no sooner than 24 hours after the membrane application, but must be backfilled within 15 days.

Backfill material should be free of debris, organic material, boulders, rocks, concrete block debris or any other harmful material not considered suitable fill.

Foundation drainage must be installed and in proper working order.

Final grade must not extend above the waterproofing membrane or system.

Final grade must slope away from the foundation at a minimum of 1/2" per foot for the first 12' from the structure.

Note: On vertical wall applications, Mar-flex recommends the installation of the Mar-flex Drain-A-Way 12" at the footer and at every 10' lift. This finishes the job and allows relief of hydrostatic pressure and helps assure water does not infiltrate through below-grade walls.

**Limited Product Warranty:⁶
Commercial – New Construction Only⁷**

See applicator for availability

Product Only Warranty:

We warrant the Mar-flex Pro to be of good quality and manufactured to meet published physical properties and quality control standards.

Except as specifically provided herein, Mar-Flex makes no warranty, express, implied or oral including but not limited to any warranty or merchantability, fitness for a particular purpose, usage of trade, course of dealing or course of performance in connection with this agreement. In no event shall mar-flex be liable on any such warranty with respect to the Mar-flex Pro Exterior Below-Grade Waterproofing Membrane. Mar-flex shall not be liable for incidental or consequential damages including, but not limited to damages of the structure, its replacement, contents or personal injury. Some states do not allow limitations on how long an implied warranty lasts or allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights, and you may also have other rights, which vary from state to state.

HEALTH AND SAFETY INFORMATION IS GIVEN IN THE MATERIAL SAFETY DATA SHEET AND THE PRODUCT DATA SHEET AVAILABLE FOR THIS PRODUCT. THESE SHOULD BE READ AND UNDERSTOOD BEFORE USING THIS PRODUCT.

MAR-FLEX WATERPROOFING AND BASEMENT PRODUCTS

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³ Reference Required Board Application Section

⁴ Board/roll required for warranty coverage, see applicator for details

⁵ Reference Spray Application Coverage Section

⁶ See applicator for availability

⁷ Bid submittal to Mar-flex required prior to application for warranty coverage.