



**INSTALLATION INSTRUCTIONS FOR  
Basix (Solvent-Based & Water-Based)  
EXTERIOR BELOW-GRADE RESIDENTIAL  
WATERPROOFING MEMBRANE  
FOR POURED WALL**

**Product:**

The Mar-Flex Solvent-Based and Water-Based Exterior Below-Grade Waterproofing Membranes are tested and proven membranes that can be applied over almost any clean, dry, sound substrate.

Basix SB Waterproofing Membrane is available in 55-Gallon Drums.

Basix WB Waterproofing Membrane is available in 55-Gallon Drums, 330-Gallon Totes and Bulk (5,000 Gallons).

**Uses**

Basix SB and WB are recommended for new construction waterproofing of all below-grade basement walls of poured concrete.

Basix SB or WB can be used as a membrane spray only or as part of a system.

**System Components<sup>1</sup>:**

Two components make up the Mar-Flex Exterior Below-Grade Waterproofing System: the Basix SB or WB Waterproofing Membrane and one of the specified Mar-flex Residential Insulation/Drainage Boards or Drainage Rolls.

**Optional Board/Roll Installation<sup>2</sup>**

Any size of the TopGun Board, Drain & Dry Boards™, or the Geo-Mat Plus Drainage Roll should be installed immediately after spraying each section of the wall with the Basix SB or WB

**Equipment:**

Mar-flex provides spray equipment designed to spray the Basix SB or WB 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<sub>GH</sub> or equal when product is purchased in a 55-Gallon Drum or in Bulk.

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 membranes is the Graco Heavy Duty (GHD) Reverse-A-Clean (RAC) 635.

**Coverage:**

For the best performance and optimum usage of the Mar-Flex membranes, spray application is recommended.

Depending on porosity and roughness of surface, coverage rate for spray application should be 3.2 to 4 gallons per 100 ft<sup>2</sup>. Coverage rate out of a 5-Gallon Bucket should be approximately 100 ft<sup>2</sup>.

Final application coat should be at a 75-mils wet membrane thickness when applying board/roll or 60-mils wet when performing a spray only application. This will result in a

minimum of a 50-mil dry thickness when applying board/roll and a minimum of 40-mil dry with a spray only application.

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

**General Requirements:**

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 Basix SB membrane when the air temperature is below 0° F.

Do not apply the Basix WB membrane when the air temperature is below 20° F.

Do not apply the Mar-Flex membranes to dirty, wet/damp or frozen surfaces.

Walls must be set before applying Mar-Flex membranes.

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.

Make sure that all existing pipes, 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 on to the builder, inform the builder they are responsible and inform them of the proper procedure to seal these areas.

**Required Prep Work<sup>3</sup>:**

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.

All brick ledges must be properly capped and sealed.

**Application Information:**

**Temperatures –**

When using Basix SB, the tank temperature should be no more than 80° – 100°F and the final spray temperature of the material should be 140° - 170°F.

When using Basix WB, the tank temperature should be no more than 80° – 100°F and the final spray temperature of the material should be 80° - 120°F.

**CAUTION: Prolonged heat can deteriorate water-based products inside the spray tank.**

<sup>1</sup> Board/roll required for certain warranties, see applicator for details

<sup>2</sup> For proper installation, see specific individual board/roll installation instructions

<sup>3</sup> All general requirements and prep work are required to qualify for warranty coverage



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

**NOTE: When transporting water-based material from site to site or when idle on a jobsite, the heat exchanger must remain off and there should be no other type of heat source to the tanks.**

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

When using the 5-Gallon Buckets, if a thinner consistency is required, a bucket band heater can be used to warm the material.

**Spray Installation -**

Membrane applications should be done one section of the wall 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 areas as necessary to obtain the required mil thickness.

Application should be made to all below-grade basement walls. This includes any wall that would be considered a common wall to habitable/storage areas. (Ex. garage wall, porch, etc.)

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 installation of the Mar-Flex Exterior Below-Grade Waterproofing System but must be backfilled within 15 days.

#57 Gravel or equivalent must be no less than 2' high at the base of the foundation and 1' in depth away from the foundation walls.

Adequate interior and exterior foundation drainage at the base of the foundation walls or across any floors must be properly installed and working.

Adequate drainage in landscaping beds adjacent to the foundation must be installed.

Final grade must not extend above the waterproofing system.

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

Gutters and downspouts must be installed and functioning properly.

**Shipping Water-Based Product:**

When shipping emulsion-based products during the winter months, there is always a risk of the material freezing while in transport.

**Storage of Water-Based Product:**

The Basix WB, like all asphalt emulsions, must be kept from freezing.

It is best to store product containers off the floor at an ambient temperature above 50°F.

Opened drums should be tightly sealed before storage to prevent a skim-coat from developing on the surface of the liquid.

Internal heat sources cannot be used in bulk storage tanks. It is not necessary to have bulk storage tanks insulated.

**Limited Warranty:**

**Product Only Warranty:**

We warrant the Mar-Flex Exterior Below-Grade Waterproofing Membranes 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 for any such warranty with respect to the Mar-Flex Exterior Below-Grade Waterproofing Membranes. 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.**

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