



**SPRAY INSTALLATION INSTRUCTIONS FOR
MAR-FLEX 5000™ (Solvent-Based & Water-Based)
EXTERIOR BELOW-GRADE RESIDENTIAL
WATERPROOFING MEMBRANE
FOR BLOCK AND ICF WALLS**

Product:

The Marflex 5000™ S.B. and W.B. Exterior Below-Grade Waterproofing Membranes are tested and proven membranes that can be applied over almost any clean, dry, sound substrate.

5000 S.B. Waterproofing Membrane is available in 55-Gallon Drums and Bulk (5,000 Gallons).

5000 W.B. Waterproofing Membrane is available in 5-Gallon Buckets, 55-Gallon Drums, 330-Gallon Totes and Bulk (5,000 Gallons).

Uses

5000 S.B. and W.B. are recommended for new construction waterproofing of all below-grade basement walls of poured concrete, unit masonry construction or ICF walls¹.

System Components²:

Two components make up the Marflex 5000 Exterior Below-Grade Waterproofing System for Block and ICF walls: the 5000 S.B. or W.B. Waterproofing Membrane and the Geo-Mat Plus Drainage Roll.

Equipment:

Marflex provides spray equipment designed to spray the 5000 membranes with optimum efficiency. See your sales representative for pricing.

For maximum output of product, Marflex recommends the use of airless spray equipment.

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

Coverage:

Depending on porosity and roughness of surface, coverage rate for spray application should be 3.2 to 4 gallons per 100 ft². Coverage rate out of a 5-Gallon Bucket should be approximately 100 ft².

Final application coat should be at a 75-mils wet membrane thickness. This will result in a minimum of a 60-mil dry thickness.

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.

Avoid application when inclement weather is present or imminent.

Do not apply the 5000 S.B. membrane when the air temperature is below 0° F.

Do not apply the 5000 W.B. membrane when the air temperature is below 20° F.

Ensure that footings are exposed and free of any debris, loose material, wet/damp or frozen areas. If needed, sweep the tops of footers to clear away debris and dry footings/walls with a weed burner or similar.

When applying heated material to the ICF walls, it is recommended that a test area be done. This ensures that the product is at the correct temperature.

Walls must be set before applying the 5000 membranes.

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 membrane 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.

Required Prep Work^{3,4}:

Specific To Block Walls

All joints must be struck or exterior wall parged to the top of the wall. All voids within the block must be core-filled with cement. All holes, cavities and other voids must be sealed with hydraulic cement or non-shrink grout.

Application:

Temperatures -

When using 5000 S.B. the tank temperature should be 80 – 100°F and the final spray temperature of the material 140 - 170°F.

When using 5000 W.B. the tank temperature should be no more than 70°F and the final spray temperature of the material should be 100° - 120°F.

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

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

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 application should be done a section of the wall at a time. Use multiple, uniform passes, alternating from horizontal to vertical.

As work progresses check for thin spots and voids in the spray application. Re-spray any areas as necessary to obtain the required mil thickness. Determine the wet mil thickness by using a standard wet mil gauge.

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.)

¹ See Poured Wall Installation Instructions

² Roll required for Mar-flex Warranty, see applicator for details

³ All general requirements and prep work are required to qualify for warranty coverage

⁴ ICF and Block may have different requirements. Please read carefully.



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Roll Installation⁵

The Geo-Mat Plus Drainage Roll should be installed immediately after spraying each section of the wall with either of the 5000 membranes.

Note: Please see the individual instruction sheet for the proper way to install the Geo-Mat Plus Roll.

Backfilling/Drainage⁶:

Backfilling should begin no sooner than 24 hours after the installation of the Marflex 5000 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. Gutters and downspouts must be installed and functioning properly.

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

Final grade must not extend above the waterproofing system and must slope away from the foundation at a minimum of ½" per foot for the first 12' from the structure.

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 5000 W.B., like all asphalt emulsions, must be kept from freezing.

It is best to store product containers off the floor at an ambient temperature at 40°F and above.

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 Warranties⁷:

Eligible Warranty Recipient – New Construction Only:⁸

A consumer purchaser ("Buyer") of a NEW (1) single family detached residence, (2) a multi-family unit with separate unit ownership, or (3) or a multi-family residence with single ownership which has had the Mar-flex 5000 Waterproofing System applied to the building's below-grade exterior walls per current installation instructions.

Product Only Warranty⁹:

We warrant the Marflex 5000 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, Marflex 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 Marflex be liable on any such warranty with respect to the Marflex 5000 Exterior Below-Grade Waterproofing Membranes. Marflex 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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⁵ For proper installation, see Geo-Mat Roll installation instructions

⁷ See written warranty for conditions, exclusions and limitations on drainage

⁷ See written warranty for conditions, exclusions and limitations

⁸ See applicator for availability

⁹ 5-Gallon Bucket Warranty