



**INSTALLATION INSTRUCTIONS FOR
FUSION™ (Solvent-based & Water-based)
EXTERIOR BELOW-GRADE RESIDENTIAL
WATERPROOFING MEMBRANE
FOR POURED WALL**

Product:

The Fusion™ 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.

Fusion S.B. Waterproofing Membrane is available in 55-Gallon Drums.

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

Uses

Fusion S.B. or W.B. is recommended for new construction waterproofing of all below-grade basement walls of poured concrete walls.

Fusion S.B. or W.B. can be used as a membrane spray only or as part of a system.

System Components¹:

Two components make up the Fusion Exterior Below-Grade Waterproofing System: the Fusion S.B. or W.B. Waterproofing Membrane and one of the specified Mar-flex Residential Insulation/Drainage Boards or Drainage Rolls.

Optional Board/Roll Installation²

Any size of the Drain & Dry™, Shockwave™ or QuickSilver Boards or the Geo-Mat Plus Drainage Roll should be installed immediately after spraying each section of the wall with the Fusion S.B. or W.B.

Equipment:

Mar-flex provides spray equipment designed to spray the Fusion membranes with optimum efficiency. See a Mar-flex sales representative for availability and pricing.

For maximum output of the product, Mar-flex 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 when applying board/roll or 50-mils wet when performing a spray only application. This will result in a minimum of a 60-mil dry thickness when applying board/roll and a minimum of 40-mil dry with a spray only application.

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 Fusion S.B. membrane when the air temperature is below 0° F.

Do not apply the Fusion 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.

Walls must be set before applying the Fusion 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 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.

Required Prep Work³:

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

When using Fusion 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.

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

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

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



**INSTALLATION INSTRUCTIONS FOR
FUSION™ (Solvent-based & Water-based)
EXTERIOR BELOW-GRADE RESIDENTIAL
WATERPROOFING MEMBRANE
FOR POURED WALL**

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/Drainage⁴:

Backfilling should begin no sooner than 24 hours after the installation of the Fusion 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 water-based products during the winter months, there is always a risk of the material freezing while in transport.

Storage of Water-Based Product:

The Fusion W.B. 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 Warranties⁵:

Eligible Warranty Recipient – New Construction Only⁶:

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 Fusion Waterproofing System applied to the building's below -grade exterior poured walls per the current installation instructions.

Product Only Warranty⁷:

We warrant the Fusion 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 on any such warranty with respect to the Fusion 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.

Mar-flex Waterproofing and Basement Products
6866 Chrisman Lane, Middletown, OH 45042
(800) 498-1411 | (513) 422-7285 | Fax – (513) 422-7282
E-mail: keepdry@mar-flex.com | www.mar-flex.com

Rev. 2008 - 2

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

⁵ See written warranty for conditions, exclusions and limitations

⁶ See applicator for availability

⁷ 5-Gallon Bucket Warranty