



## Exterior Below-Grade Residential Dampproofing Membrane

# DampProofing Water-Base

## Description

Mar-flex Dampproofing is a heavy-bodied cut-back asphalt emulsion protective coating used when dampproofing is required. It forms a smooth, tough, almost rubber-like film when dry. Mar-flex Dampproofing has a moderately good resistance to temperature changes, is flexible at low temperatures, has excellent weather ability and resists water penetration.

## Uses

Marflex DampProofing membranes are recommended for dampproofing below-grade basement walls of poured concrete or unit masonry construction. They serve as a vapor retarder on the exterior face of the interior walls of above-grade exterior masonry cavity walls. They also excel as a utility coating on posts, pilings and other metal surfaces set into the ground. Marflex DampProofing can be spray or brush applied.

## Optional Board/Roll Installation

If desired, the Drain & Dry Fiber Board™, Shockwave™ 1" or 2" board, the Geo-Mat Plus™, or "C" Drain 110 or 150 roll can be installed immediately after spraying each section of the wall with the DampProofing.

## Equipment

Marflex recommends spray equipment designed to spray the DampProofing membranes with optimum efficiency. For maximum output of product, Marflex recommends the use of airless spray equipment. A pressure of 3000 psi is required to spray membranes. If purchasing in a 5- Gallon Bucket the use of a brush, trowel or roller is recommended.

## Coverage

Depending on porosity and roughness of surface, coverage rate for spray application and pails should be 65 sqft/gal. Final application coat for the dampproofing below-grade basement walls or in a cavity wall application should be at a minimum of 35-mils wet membrane thickness. This will result in a minimum of a 20-mil dry thickness.

Application should be done a section of the wall at a time. Use multiple, uniform passes, alternating from horizontal to vertical. Check for thin spots and voids in the spray application after spraying various sections of the wall. Re-spray any such areas as necessary to obtain proper mil thickness. Determine the wet mil thickness 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. Avoid application when inclement weather is present or imminent. Do not apply membranes when the air temperature is below 0° F. Do not apply the membranes to dirty, wet/damp or frozen surfaces.

Poured concrete walls, mortar, masonry block cores filled with concrete as well as parged surfaces, must be set before applying Mar-flex dampproofing. 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 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 Work

**Required Prep Work - Below-Grade Dampproofing:** Remove below grade wall ties inside the basement and outside. Patch all outside below grade wall ties with the Marflex 362 Mastic or similar. Poured concrete walls must be free of voids and honeycombs. Any such areas, if present, should be covered with the Marflex 362 Mastic or similar mastic. All brick ledges must be properly capped and sealed.

**Required Prep Work - Cavity Wall:** Make sure substrate surfaces are free of loose particles and dry. If needed, clean prior to application. Make sure there are no cracks or honeycombs. Any such areas, if present, should be covered with the Marflex 362 Mastic or similar mastic. Protect adjacent surfaces not receiving the coating with cardboard or similar.

## Application Information

Temperatures –When using W.B. DampProofing, the tank temperature should be at 80° – 100°F and the final spray temperature of the material should be 100° - 170°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.



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## 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 such areas as necessary to obtain proper 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.) 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 membrane, 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 1/2" per foot for the first 12' from the structure.

## Packaging

Water-based DampProofing is available in 5 Gallon Buckets, 55-Gallon Drums, 330-Gallon Totes and Bulk (6,000 Gallons).

## Shelf Life

6 months

## Limited Warranty

Mar-flex warrants the products 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 product. 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.**

DampProofing Water Base Spec Sheet		
Property	Method	Results
Color		Black
Total Solids		45-60%
Application Method		Spray, Brush, Roll
Application Range		20° F to 130° F
Elongation @ 70° F (21°C)	(ASTM D-412 Die C)	180%
Resistance to Hydrostatic Head Pressure	(Federal Spec TT-C-555B, Par 4.4.7)	No Water Infiltration
Total Cure Time		24 hrs.
Weight/Gallon		6.8 lbs.
Coverage Rate		65 sqft/gal
Tensile Strength	(ASTM-C-719)	32 psi min.
Water Vapor Permeance	(ASTM E-96)	0.42 perm (grains/sq. ft/h)
Membrane Only		20 mil dry thickness
Coverage Rate		50 sq ft/gal

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