



## Exterior Below-Grade Commercial Dampproofing Membrane

# ArmorBlock 361 Waterbase

### **Product:**

ArmorBlock 361 W.B. is a commercial grade heavy bodied asphalt emulsion protective coating used when dampproofing is required.

ArmorBlock 361 W.B. is available in 5-Gallon Buckets & 55-Gallon Drums and 330gal totes

ArmorBlock 361 complies with ASTM D 1227-95, Type 2, Class 1 and ASTM D 1187, Type 1

### **Uses:**

ArmorBlock 361 W.B. membrane is recommended for dampproofing below-grade basement walls of poured concrete or unit masonry construction. It serves as a vapor retarder on the exterior face of the interior walls of above-grade exterior masonry cavity walls. It excels as a utility coating on posts, pilings and other metal surfaces set into the ground.

ArmorBlock 361 W.B. can be spray, brush or roll applied to any vertical or horizontal surface.

### **Leeds Data:**

ArmorBlock 361 W.B. is considered a GREEN product and can be used toward LEEDS building credits.

### **Spray Equipment:**

For maximum output of product, Mar-flex recommends the use of airless spray equipment.

To ensure efficient flow of the material during spray applications, Mar-flex recommends using 125' of 1/2" 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 S5. The suggested spray tip for the Mar-flex DampProofing is the Graco Heavy Duty (GHD) Reverse-A-Clean (RAC) 635.

If purchasing in a 5-Gallon Bucket the use of a brush, trowel or roller is recommended.

### **Coverage:**

For the best performance and optimum usage of the ArmorBlock 361 W.B., spray application is recommended.

Depending on porosity and roughness of surface, coverage rate for spray application should be 2 gallons per 100 ft<sup>2</sup>.

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.

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 membrane when the air temperature is below 20° F. Do not apply the membrane 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 the ArmorBlock 361 W.B. May be applied to "Green" concrete as soon as forms are removed.

### **Prep Work - Below-Grade 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.

Poured concrete walls must be free of voids and honeycombs. Any such areas, if present, should be covered with Marflex's 362 Mastic or similar mastic.

Make sure all brick ledges are properly capped and sealed.

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.

### **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 362 Mastic or similar.

Protect adjacent surfaces not receiving the coating with cardboard or similar.

### **Application Information:**

Temperatures –

When using ArmorBlock 361 W.B., the tank temperature should be at 80° – 100°F and the final spray temperature of the material should be 100° - 170°F. Air temperatures should be at minimum of 20° and rising. A pressure of 3000 psi is required to spray membranes.



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### **Spray Application:**

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. Re-spray any such areas as necessary to obtain proper mil thickness after spraying various sections of the wall.

**Dampproofing 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.)**

### **Packaging:**

Water-based ArmorBlock 361 Dampproofing is available in 5 gal pails, 55-Gallon Drums, 330gal totes and in Bulk (6,000 Gallons).

### **Optional Board/Roll Installation - Dampproofing:**

If desired, Mar-flex TopGun Board, or the Geo-Mat Plus™ roll can be installed immediately after spraying each section of the wall with the ArmorBlock 361 W.B.

Build the ArmorBlock 361 W.B. up to 35 mils wet, place the drainage roll or insulation 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 - Dampproofing:**

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 membrane or the drainage roll or insulation board if installed.

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

### **Application – Cavity Wall:**

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.

### **Product Only Warranty:**

The information herein is the best available relating to ArmorBlock 361 W.B. and the recommendations contained herein are based on tests believed to be reliable.

Mar-flex warrants the product to be of good quality and manufactured to meet published physical properties and quality control standards and will replace or refund the purchase price of this product if proved defective within one year of date of application. This warranty does not apply if there is no working drainage system.

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 ArmorBlock 361 W.B. 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 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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### ArmorBlock361 WaterBase Properties

| Property                                | Method                              | Results                     |
|---|-------------------------------------|-----------------------------|
| Color                                   |                                     | Black                       |
| Total Solids                            |                                     | 55-60%                      |
| Application Method                      |                                     | Spray, Brush, Roll          |
| Application Temp. 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                           |                                     | 7.6 lbs.                    |
| Coverage Rate                           |                                     | 2 gal/100 ft <sup>2</sup>   |
| Tensile Strength                        | (ASTM-C-719)                        | 32 psi min.                 |
| Water Vapor Permeance                   | (ASTM E-96)                         | 0.20 perm (grains/sq. ft/h) |
| Film Thickness-Membrane Only            |                                     | 20 mil dry thickness        |
| Shelf Life                              |                                     | 6 mo.                       |

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