

Product Specification & Information

PLM-100™ Waterproofing Membrane

PLM-100™ Waterproofing Membrane is a carefully formulated polymer modified waterborne asphaltic emulsion designed to provide exceptional resistance to moisture infiltration when used for below grade masonry surfaces. Its highly elastomeric and flexible film imparts a tough, monolithic waterproofing membrane that will bridge non-structural cracks and resist hydrostatic pressure. By its ability to be spray applied, it eliminates the applicator's concern for seams, wrinkles, or voids in the applied membrane. PLM-100™ may also be used with insulation or drainage board products to add additional protection and resistance to moisture.

Laboratory Data

Flash Point, COC, °F
Density, Weight/Gallon @ 77°F(25°C)
Recommended Dry Film Thickness
Theoretical Coverage @ Recommended Dry Film
Non-Volatile % by Weight, Minimum
Volatile Organic Content (VOC)
Approximate Dry Time to Touch @ 77°F(25°C)
Cure Time

Cured Film Properties

Resistance to Water (ASTM-D466)
Resistance to Flow Under Heat (ASTM D-466)
Tensile Strength (ASTM C3019)
Elongation (ASTM C3019)
Low Temp Flexibility and Crack Bridging
Adhesion to Damp Surfaces (ASTM 3409)

Water Vapor Permeance (ASTM E96 Water Method)
Hydrostatic Pressure Resistance (ASTM D5385)

Typical Properties

<u>English</u>	<u>Metric</u>
No Flash*	No Flash*
8.45 +/-0.2 lbs./gal	1012 grams/L
60 mils	1524 microns
25 sq.ft./gal.	0.58 sq.meters/L
65.0%	
<0.2 lbs./gal	<24 grams/L
60-90 minutes	
24 hours	

Result

No Evidence of Re-emulsification
No Sag or Slide @ 160°F(71°C)
>11.0 kPa Typical
>1000%
Passes 10 cycles
Readily displaces or
mixes with water. Can be applied
to damp surfaces.
Less than 0.30 grains/hr. ft²
Resists >6.0 psig water pressure

Surface Preparation

The maximum performance of PLM-100™ can only be achieved when concrete surfaces are smooth, clean and no visible surface wetness. Remove loose aggregate and sharp protrusions from the wall. Footings should be swept clean of all dust, debris, and loose aggregate. **Voids, spalled areas, wall ties, and exposed aggregate in foundation walls should be pre-treated or filled with PLM 100™. A suitable mastic can be used additionally after PLM 100™ has cured.** Recommended surface temperatures should be a minimum of 20°F and rising.

Application

PLM-100™ is formulated to be used as supplied. To ensure uniform consistency prior to use, continued stirring or tank circulation is generally not necessary. If the product thickens due to storage in colder temperature or upon prolonged storage prior to use, contact HouseGuard. DO NOT THIN PLM-100™. Incorrect thinning will affect film build, dry times, and product performance. Ambient temperatures should be at 20°F and rising at the time of application. Product should be gently heated to 90 to 140°F prior to application for best results. PLM-100™ is best applied at fluid pressures of 1000 to 2000 psig. Equipment type and configuration will require user to determine best pressure and tip size to achieve a uniform spray pattern for adequate application and coverage. DO NOT ALLOW PLM-100™ to FREEZE. A minimum of 60 mils dry cured film is necessary to provide maximum results. Typically a two-coat process is most effective, utilizing a horizontal spray application followed by a vertical spray pass. Each spray pass should be approximately 45 mils wet, 30 mils dry. PLM-100™ may be applied to foundation walls as soon as forms are removed. Surfaces should be free of form oils and other contaminants as well as free of any visible surface moisture or ice (in colder temperatures).

Removal

PLM-100™ cured films are not normally intended for removal. The product can be removed from spray equipment and other surfaces using HouseGuard™ THAT Asphalt Cleaner™. If removability is a factor, contact HouseGuard.

Storage

Store PLM-100™ at temperatures above 50°F and below 120°F. Prolonged storage may require mild agitation prior to use.

Caution

Adequate temperatures and ventilation is required for proper curing. Cured films should not be exposed to direct sunlight in excess of 15 days. Refer to Material Safety Data Sheet for additional handling and first aid information. The addition of any product over or under this coating is not recommended. The use of additional coatings could result in chemical incompatibility and adversely affect the performance of the waterproofing membrane as stated in the lab data section. If protection, insulation, or drainage board is used with PLM-100™, HouseGuard should be consulted for proper recommendations at 1950 Williams Street, Alma, MI 48801. Phone 800-560-5701 or Fax 989-466-1323.

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