

Hydra-Guard WB Foundation Waterproofing Membrane

Description

Hydra-Guard WB is a water-based polymer-modified asphalt waterproofing membrane. Hydra-Guard WB is a single coat solvent free membrane. Hydra-Guard WB cures to form a smooth, flexible and monolithic membrane to prevent water penetration into below grade foundations. Hydra-Guard WB maintains a monolithic barrier to water penetration, stretching over cracks that develop in foundations. Hydra-Guard WB is applied by brush, roller or sprayer to the soil side face of vertical concrete walls and retaining walls.

Typical Use

Hydra-Guard WB is used to coat soil side faces of below grade concrete foundation walls and retaining walls. Use on horizontal surfaces is not recommended.

Advantages

- Fast application rates for low labor cost
- Remains flexible below freezing
- Provides a rubber like membrane
- Water-based; no VOC solvent content
- No primer needed
- Non-flammable
- Stretches over cracks in substrate
- Provides a seamless barrier

Limitations

- For use on poured concrete only
- Use when temperatures are above 25°F
- For vertical walls only

Installation

For detailed installation instructions please review Hydra-Guard WB Application Instructions.

Surface preparation: Make sure surfaces to be sealed are cured, smooth, dry, unfrozen and free of dirt, dust, loose debris, curing agents, release agents, oil and grease. On concrete walls fill voids, honeycombs and tie holes with non-shrinking grout or mastic. Remove fins, ridges, ties and splatters. Cracks in concrete joints greater than 1/16" across are to be filled with non-shrinking grout or mastic prior to application. Do not leave installed Hydra-Guard WB exposed to sunlight for more than 30 days.

Primer: No primer is necessary

Apply Hydra-Guard WB 60 mils wet thickness. Hydra-Guard WB cures to 40 mils dry. Measure thickness with a wet mil gauge.

Hydra-Guard WB-Roller Application: Roll on Hydra-Guard WB with a 1" knap roller. Start at the base of the wall and work up. Build thickness to 60 mils wet. Do not apply in temperatures lower than 25°F. If additional coats are necessary, re-apply after previous coats have cured.

Hydra-Guard WB-Spray Application: Spray with special airless spray equipment capable of 2000 psi minimum. Build thickness to 60 mils wet. Start at the base of the wall and work up. Apply in multiple light coats in one pass. Do not apply in temperatures lower than 25°F. Maintain product temperature while spraying between 65°F-90°F. If additional coats are necessary, re-apply after previous coats have cured. Avoid high wind conditions to minimize overspray.

Optional Co-Spray Process: It is possible but not required to co-spray Hydra-Guard WB with a calcium chloride solution. Dilute CaCl₂ at a 1:5 ratio. 16 oz of 77% CaCl₂ flakes to one gallon of water.

Physical Properties

Property	Description
Color	Black
Solids	60-70%
Density	8.1 lbs/gallon
Application	Roller, Brush, Sprayer
Cure Time	16-24 Hours @ 75°F, 50% Humidity
Thickness	60 mils wet, 40 mils dry
Coverage Rate	20-30 sq. ft/gal
Minimum Application Temp.	25°F

Technical Data

Property	Test Method	Results
Elongation	ASTM D-412	1800%
Tensile Strength	ASTM C-719	53 psi @ 75°F
Ability to Remain in Place	ASTM C-836-89	Good
Resistance to Mold	ASTM D-3274	No Growth
Water Solubility	ASTM D-2939 par 17	None
Resistance to Hydrostatic Pressure	Fed. Spec. TT-C-555 B par 4.4.7	No leaks, No weight gain to substrate
Water Vapor Permeance	ASTM E-96 Wet cup method	0.12 grains/ft ² /hr 0.28 Perms
Crack Bridging	ASTM C-836	10 Cycles without failure
Water Solubility	ASTM D-2939	No blistering or re-emulsification
Resistance to Water Flow	ASTM D-466, par 5	
Bond Adhesion to Substrate		Good
Reemulsification		None

Packaging

5 Gallon Pails, 55 Gallon Drums, 330 Gallon Totes
Shelf life in original unopened containers, stored between 50°F- 90°F; 6 months

Warranty

Applied Technologies warrants that for a period of 12 months from the date of manufacture or for the duration of the published shelf life, whichever is less, that at the time of shipment, the product is free of manufacturing defects and conforms to published specifications in force on the date of acceptance by "the company" of the order. Applied Technologies shall only be held liable under this warranty if the material has been stored, used and applied in accordance with Applied's instructions in the products technical data sheet.

If Applied Technologies, in its sole discretion determines that the product breached the above warranty it will in its sole discretion replace the non-conforming product, refund the purchase price or issue a credit to the buyer of the product. The dollar value of Applied's liability and the buyer's remedy under this limited warranty shall not exceed the purchase price of the material in question. This is the only warranty extended by Applied. There are no other warranties including implied warranties of merchantability and fitness for a particular use and purpose. Applied specifically disclaims liability for any incidental, consequential or other damages including but not limited to, loss of profits or damages to a structure or its contents.

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