

Hydra-Guard Foundation Waterproofing Membrane

Description

Hydra-Guard is a solvent-based polymer-modified asphalt waterproofing membrane. When low temperature application is a priority, J-Cote solvent based can be used in low temperatures with special heated spray equipment. Hydra-Guard is a single coat membrane. When cured, Hydra-Guard forms a smooth, flexible and monolithic membrane to prevent water penetration through below grade foundations. Hydra-Guard maintains a monolithic barrier to water penetration, stretching over cracks that develop in foundations. Hydra-Guard is applied by trowel or sprayer to the soil side of concrete foundation walls and retaining walls.

Typical Use

Hydra-Guard is used to coat the 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
- Provides a rubber like membrane
- Withstands hydrostatic pressure
- Remains flexible below freezing
- No primer needed
- Stretches over cracks in substrate
- Provides a seamless barrier
- Low temperature application

Limitations

- For use on poured concrete only
- Use when temperatures are above 0°F
- For use on vertical walls only

Installation

For detailed installation instructions please review Hydra-Guard 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 exposed to sunlight for more than 30 days.

Primer: No primer is necessary

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

Hydra-Guard-Trowel Application: Trowel on Hydra-Guard with a steel un-notched trowel. Start at the base of the wall and work up. Build thickness to 60 mils wet. Do not apply in temperatures lower than 0°F. If additional coats are necessary, re-apply after previous coats have cured.

Hydra-Guard-Spray Application: Spray with special airless spray equipment capable of 3000 psi minimum. Airless spray equipment must be capable of heating Hydra-Guard to 160°F. Build thickness to 60 mils wet. Start at the base of the wall and work up. Apply in multiple light coats in one pass. Spray form seams vertically to avoid shadow effect. Do not apply in temperatures lower than 0°F. Maintain product temperature while spraying between 130°F-160°F. If additional coats are necessary, re-apply after previous coats have cured. Avoid high wind conditions to minimize overspray.

Physical Properties

<u>Property</u>	<u>Description</u>
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.	0°F

Technical Data

<u>Property</u>	<u>Test Method</u>	<u>Results</u>
Elongation	ASTM D-412	1725%
Tensile Strength	ASTM C-719	48 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
Remulsification		None

Packaging

55 Gallon Drums
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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