

UltraGuard Foundation Waterproofing Membrane

Description

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

Typical Use

UltraGuard is used to coat the soil side faces of below grade ICF foundations, concrete foundation walls and retaining walls.

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

- Use when temperatures are above 32°F

Installation

For detailed installation instructions please review UltraGuard 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. Gaps in ICF should be filled with grout or spray insulating foam. 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.

Primer: No primer is necessary

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

UltraGuard-Roller Application: Roll on UltraGuard 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 32°F. If additional coats are necessary, re-apply after previous coats have cured.

UltraGuard-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 32°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	Grey
Solids	60-70%
Density	8.1 lbs/gallon
Application	Roller, Brush, Sprayer
Cure Time	12-24 Hours @ 75°F, 50% Humidity
Thickness	60 mils wet, 40 mils dry
Coverage Rate	20-30 sq. ft/gal
Minimum Application Temp.	32°F

Technical Data

<u>Property</u>	<u>Test Method</u>	<u>Results</u>
Elongation	ASTM D-412	540%
Tensile Strength	ASTM C-719	50 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

5 Gallon Pails, 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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