

AirGuard 0727 Fluid Applied Membrane Air Barrier

Description

AirGuard 0727 is a water-based polymer-modified asphalt vapor impermeable air barrier. AirGuard 0727 cures to form a smooth, flexible and monolithic membrane to stop air, water and vapor penetration through exterior wall assemblies. AirGuard 0727-R is applied by brush or roller and AirGuard 0727-SP is spray applied to cavity wall exterior surfaces.

Typical Use

AirGuard 0727 is a fluid applied membrane air barrier used on the exterior face of the inner course of cavity wall assemblies to prevent air, water and vapor transmission to the interior of the building. Typical applications are on concrete, CMU, or exterior sheathing of cavity walls to be covered with an exterior finish.

Advantages

- Fast application rates for low labor cost
- Reduces building energy cost
- Combination air, vapor and water barrier
- Bonds to CMU, plywood, OSB, concrete, insulation board and most other construction materials
- Provides a rubber like membrane
- No primer needed
- Non-flammable
- Water-based; no VOC solvent content
- Stretches over cracks in substrate
- Provides a seamless barrier
- Year round protection in a large range of temperature conditions

Installation

For detailed installation instructions please review AirGuard 0727 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. Mortar joints must be cured and struck flush without any voids. On concrete walls fill voids, honeycombs and tie holes with non-shrinking grout or mastic. Remove fins, ridges, ties and splatters. Cracks in concrete or mortar joints greater than 1/16" across are to be filled with non-shrinking grout or mastic prior to application. Do not leave installed AirGuard 0727 exposed to sunlight for more than 30 days.

Primer: No primer is necessary

Apply AirGuard 0727 60 mils wet thickness. AirGuard 0727 cures to 40 mils dry. Cover transition flashing, thru wall flashing and conforming flashing 2" minimum. Measure thickness with a wet mil gauge.

AirGuard 0727-R: Roll on AirGuard 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.

AirGuard 0727-SP: 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 Spray Process: It is possible but not required to co-spray AirGuard 0727 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.	Spray Grade: 25°F Roller Grade: 32°F

Technical Data

Property	Test Method	Results
Elongation	ASTM D-412	1500%
Tensile Strength	ASTM C-719	48 psi (331 kPa)
Air Leakage	ASTM 283	<0.004 CFM/ft ² @ 0.3" water
Water Leakage	ASTM E-331	Pass
Wind Loading	ASTM E-330	Pass
Water Vapor Permeance	ASTM E-96	not more than 0.02 perm
Air Permeance	ASTM E-2178	<0.009 L/s*m ² @ 75 Pa
Crack Bridging	ASTM C-836	10 Cycles without failure
Water Solubility	ASTM D-2939	No blistering or re-emulsification

Packaging

AirGuard 0727-R (Roller Grade): 5 Gallon Pails
AirGuard 0727-SP (Spray Grade): 55 Gallon Drums, 330 Gallon Totes

Shelf life in original unopened containers, stored between 50°F- 90°F;
AirGuard 0727-R: 12 months
AirGuard 0727-SP: 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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