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ArmorSeal[™] VP

PRODUCT DESCRIPTION

When not factory-applied as part of ArmorWall VP, ArmorSeal[™] VP is field-applied within the ArmorWall system to provide continuity to the air and water control layers in openings and transitions. ArmorSeal[™] VP is a single-component vapor-permeable air and water-resistive barrier providing protection behind wall claddings such as brick, siding, metal panels, EIFS, and stucco.

PRODUCT ADVANTAGES

Vapor-Permeable - The low air infiltration rate reduces condensation and energy loss while allowing any moisture within the assembly to dry.

Reduced Costs - Fast and versatile therefore efficient liquid-applied installation reduces labor. The liquid application allows for no holes or tearing also assuring proper lapping at joints. There is seamless integration into the ArmorWall VP assembly allowing rapid quality control and inspection.

Tenacity - No loss in effectiveness or performance when exposed to weather and jobsite accidentals during prolonged construction.

Compatibility - compatible with most paints, sealants, and coatings. Low odor and non-toxic.

REGULATORY COMPLIANCE

- US Environmental Protection Agency's AIM VOC regulations.

PRODUCT LIMITATIONS

- Utilization of a slip sheet is necessary for stucco cladding applications.
- For applications dealing with temperatures below 32°F (0°C) or above 100°F (38°C) please contact customer services.
- Do not use below-grade.
- Not for use as an exterior finish.
- Previously painted surfaces are not acceptable for coating application.
- ArmorSeal VP may only be left exposed to UV behind open joint rainscreen system when installed over ArmorWall insulated panels. Field-applied applications must be covered within 90 days. Non-insulated panels require supplemental measures. Contact Customer Services for further requirements and measures.

HANDLING AND USE

Store indoors in a cool and dry place protected from freezing and extreme heat conditions and out of direct sunlight. To aid in application during cold weather conditions, keep in heated storage prior to use. Keep the container closed until preparatory conditions have been met and reinstate lid when not dispensing. Never mix or alter with other chemicals. ArmorSeal[™] VP has a shelf life of 2 years when properly stored in upright and original sealed containers. Do not double stack pallets. Dispose of unused products and containers in accordance with local, state and federal regulations.



SPRAY APPLIED



BRUSH APPLIED



ROLLER APPLIED

PRODUCT PREPARATION & APPLICATION

Mix with low-speed drill and clean mixing paddle. ArmorSeal[™] VP can be spray, roller, or brush applied. A 3/4 inch (19mm) nap roller is recommended when roller applying. When spray applying, use the following airless spray equipment specifications:

- Minimum 1.5–2 gallons output Immersion Feed
- *Minimum hose diameter of 3/8-inch. NOTE: A 1/2-inch x 3-foot whip hose may be used for ergonomic purposes. Run 3/8-inch ID hose all the way to the 3-foot whip hose. *NOTE: If hoses longer than 50 feet are required to a maximum hose length of 150 feet, use 75 feet of 1/2-inch hose and 75 feet of 3/8-inch hose with a 3 foot 1/4-inch whip hose.
- Minimum tip size of 0.027–0.031.
- Minimum pressure requirement to spray of 2,000 psi at the gun with an airless sprayer rated no lower than 3,300 psi.
Remove all filters in sprayer and gun before application.

CAUTION needs to be taken to prevent material from skinning during application to avoid partially dried material from being sucked into the pump equipment and causing excessive tip plugging.

Ensure application surface is clean of contaminants that may adversely affect adhesion and is free from any damage. Pressure-treated wood or other treated surfaces should be cleaned using Isopropyl Alcohol wipe and be allowed to flash-off prior to application. Sheathing gaps must be less than 1/4 inch, for anything larger use ArmorSeal[™] Sealant and backer rod application. Application temperatures are 25°F - 100°F (-3°C - 38°C), temperatures at 25°F (-3°C) must be rising and maintain for a minimum period of 24 hours. High wind and high temperatures will accelerate drying. If temperatures exceed 95°F (35°C) apply prior to peak daytime air and surface temperatures and do so to shaded areas. A mist of fresh water may be used to cool the surface. Surface can be damp for application but must be free of standing water. Coverage rates will vary based on surface characteristics. Insure at minimum 10 wet mils thickness. When spray-applying to surface, back rolling may be necessary to achieve a continuous pinhole-free coating. Coating will typically be dry to the touch within 1 hour of application. When applying to concrete, achieve hide with second coat, the surface can be re-coated after 2 hours of the first. Curing and drying durations vary with temperature, humidity, and surface conditions. Protect the coating from rain until completely cured. Product drying time is 12 hours at 70°F (21°C) and 50% relative humidity. Inspect membrane before covering having repaired any deep gouges, punctures, or other sustained damage using ArmorSeal[™] Sealant. Overlap repairs, penetration treatments and transitions, thruwall flashing, rigid flashing, and other air barrier components for continuity and positive drainage. Clean tools and equipment with soapy water immediately after use. Mechanically remove dried material.

Explore our other ArmorWall System Components:

ArmorWall Return

ArmorWall Board

ArmorWall Screw

ArmorWall Attachment Screw

ArmorSeal NP

ArmorSeal Sealant

ArmorSeal Mesh Reinforcement

ArmorWall BG Trowel Flash

ArmorWall BG Trowel

Reinforcement

ArmorWall BG Sealant

TYPICAL TECHNICAL DATA	
Form	Batter-like, semi-gel liquid plum in color
Specific Gravity	1.40
pH	8.5 - 9.5
WT/GAL	11.69 lbs
Total Solids	63 - 68%
VOC Content	< 18 g/L
Flash Point	N/A, 0 Flammability
Freeze Point	32°F (0°C)
Shelf Life	2 years in tightly sealed, unopened container

ICC-ES AC212 ¹ - Acceptance Criteria for Water-Resistive Coatings Used as Water-Resistive Barriers Over Exterior Sheathing			
PROPERTY	CRITERIA	RESULTS	TEST METHOD
Tensile Bond	Minimum 15 psi (105 kPa)	Pass	ASTM C 297
Freeze-Thaw	No cracking, checking, crazing, erosion, delamination, or other deleterious effects	Pass	ICC-ES AC212
Water Resistance	No cracking, checking, crazing, erosion, delamination, or other deleterious effects	Pass	ASTM D 2247
Water Vapor Transmission	Measure	25 perms at 10 mils	ASTM E 96 Wet Cup
Water Penetration	No visible water penetration at the sheathing joints as viewed from the back of the panel	Pass	ASTM E 331
Structural, Racking, Restrained Environmental Conditioning & Water Penetration	No cracking of the coating	Pass	ASTM E 1233 A ASTM E 72 ICC-ES AC212 ASTM E 331
Weathering	No cracking of the coating, no water penetration	Pass	ICC-ES AC212 AATCC ² 127
Air Permeance	≤ 0.02 L / s·m ² at 75 Pa (≤ 0.004 cfm / ft ² at 1.57 psf)	Pass: 0.0024 L / s·m ² at 75 Pa (0.0005 cfm / ft ² at 1.57 psf)	ASTM E 2178

¹ International Code Council Evaluation Service Acceptance Criteria 212

² American Association of Textile Chemists and Colorists

ABAA: Air Barrier Association of America Acceptance Criteria for Liquid Applied Membranes			
PROPERTY	CRITERIA	RESULTS	TEST METHOD
Air Permeance	≤ 0.02 L / s·m ² at 75 Pa (≤ 0.004 cfm / ft ² at 1.57 psf)	Pass: 0.0024 L / s·m ² at 75 Pa (0.0005 cfm / ft ² at 1.57 psf)	ASTM E 2178
Air Leakage of Air Barrier Assemblies	≤ 0.2 L / s·m ² at 75 Pa (≤ 0.04 cfm / ft ² at 1.57 psf)	Pass: 0.0028 L / s·m ² at 75 Pa (0.0059 cfm / ft ² at 1.57 psf)	ASTM E 2357
Water Resistance	No water infiltration after exposure to 55 cm head of water for 5 hours	Pass	ASTCC 127
Fastener Sealability	No water infiltration	Pass	ASTM D 1970
Pull Adhesion	110 kPa (16 psi) or substrate failure	Pass	ASTM D 4541
ICC-ES AC212	Pass	Pass	Entire Suite of Tests
Crack Bridging	Pass	Pass	ASTM C 1305
Water Vapor Transmissions	Measure	Wet Cup: 16 perms at 10 mils Dry Cup: 3 perms at 10 mils	ASTM E 96 Wet Cup Dry Cup

FIRE TESTING			
PROPERTY	CRITERIA	RESULTS	TEST METHOD
Surface Burning Characteristics	Criteria for ICC and NFPA Class A Building Material: Flame Spread ≤ 25 Smoke Developed ≤ 450	Meets Class A Building Material: Flame Spread: 5 Smoke Developed: 5	ASTM E 84
Fire Propagation Characteristics of Exterior Non-Load Bearing Wall Assemblies	Must resist flame propagation and flame spread	Pass	NFPA ¹ 285

¹ National Fire Protection Association



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For specific inquiries regarding installation please contact MaxLife Industries Customer Services.

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