AkroFlex WM Plus

A Class PB Exterior Insulation and Finish System with Drainage

PRODUCTS INTERNATIONAL

AkroFlex Water Managed Plus Exterior Insulation and Finish System is a lightweight, multi-component exterior wall assembly. EIFS can resemble traditional stucco, while offering additional energy efficiency, design versatility, weatherability, and durability. For these reasons, EIFS has become one of the most popular cladding options with billions of square feet installed on buildings around the world. Omega Products is a leader in the EIFS industry with decades of successful installations.

System Description

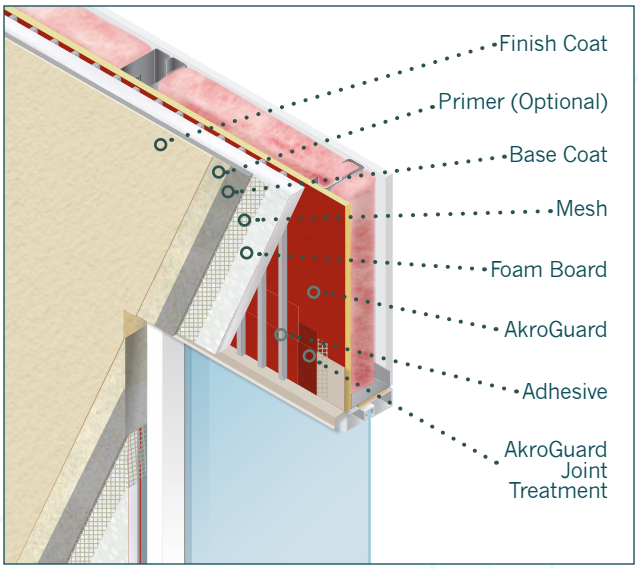
The AkroFlex Water Managed Plus (WM+) System is a class PB system utilizing a water-resistive/air barrier coating and a means of draining incidental moisture to the exterior. AkroFlex WM+ consists of the AkroGuard water-resistive air barrier assembly applied over approved, properly prepared substrates. Foam board is attached to the sheathing using vertical ribbons of adhesive. Then base coat with mesh fully embedded is applied over the foam. Lastly, primer (optional) and AkroFlex 100% acrylic finish are applied. Like a standard PB system, AkroFlex WM+'s finish and base coats are designed to keep moisture on the exterior surface, but WM+ adds an additional layer of moisture protection with a water-resistive coating.

Design Considerations

- May be applied over the following:
  - Steel or wood framed construction with the following substrates:
    - ASTM C1396 water-resistant gypsum sheathing
    - ASTM C1177 glassmat faced gypsum sheathing
    - ASTM C1325 cement boards
    - ASTM C1278 gypsum fiber panels
    - Exterior grade or exposure 1 plywood
    - Exposure 1 OSB
  - Poured concrete or masonry
- Available in non-combustible assemblies
- May be panelized to meet project construction needs
- Visit www.omega-products.com for additional design and installation requirements, including the ICC-ES ESR-2064 report, specification (OP908), standard system details (AWP), and individual product data sheets

Uses

AkroFlex Water Managed is an excellent exterior wall cladding for new or retrofit commercial or institutional projects.



AKROFLEX ADVANTAGES

Features	Benefits
Water Managed	Allows incidental moisture to escape from wall assembly
Energy Efficiency	Reduces operating energy costs due to increased wall insulation and reduced air infiltration
Design Flexibility	Can be fashioned into virtually any shape or design and is available in a wide selection of colors and textures
Lightweight	Reduces the structural load requirements
Weather-Resistant	Protects integrity of the building envelope
Durable	Fade, crack, abrasion, and dirt pickup resistant; low life cycle costs
System Warranty	Up to 18-years when used in combination with other Omega products

Approved by: _____ Date: _____

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System Components

Adhesives and Base Coats

The following products may be used as an adhesive and/or base coat:

PRODUCT	USE	PACKAGING	SPECIAL USES
☐ StyroGlue	Adhesive or Base Coat	Pail (5gal, 55lb)	
☐ StyroGlue DryBond	Adhesive or Base Coat	Bag (50lb)	
☐ StyroGlue Plus	Adhesive or Base Coat	Pail (5gal, 55lb)	Highly water-resistant
☐ StyroGlue TF	Base Coat	Pail (5gal, 65lb)	Fiber-reinforced, tintable

Water-resistive/Air Barrier Assembly

AkroGuard Water-Resistive Air Barrier Assembly consists of a field applied, non-cementitious, flexible coating and joint/transition treatments that create a water-resistive air barrier assembly.

EPS Foam Board[1]

Type I EPS board complying with ASTM C578 with a nominal density of 1 pound per cubic foot, a flame-spread rating of 25 or less, a smoke-developed rating not exceeding 450, and a thickness of 1 to 4-inches.

Reinforcing Mesh

AkroFlex Meshes are alkali-resistant woven glass fiber fabrics specially designed to be used with AkroFlex EIF Systems. Meshes are available in a range of weights that provide different levels of strength and impact resistance.

☐ Ultra Heavy Duty Mesh (20oz): For locations needing the highest impact resistance, such as ground floors and high traffic areas.

☐ Heavy Duty Mesh (15oz): For locations needing high impact resistance, such as ground floors and other higher traffic areas.

☐ Intermediate Mesh (11.5oz): For locations needing additional impact resistance, such as medium traffic areas.

☐ Standard Mesh (4.2oz): For locations needing standard impact resistance, such as second stories or other low traffic areas where impact is unlikely.

☐ Starter Mesh (4.2oz): For back wrapping and detail work.

Primer (Optional)[2]

☐ AkroFlex Base Primer is 100% acrylic-based primer designed to promote bond strength, color consistency and uniform suction, while increasing water resistance.

AkroFlex Finishes

AkroFlex 100% acrylic based finishes use the latest Dirt Pickup Resistance (DPR) technology, to provide long lasting, weather resistant, durable finishes that will resist discoloration, fading, or mold growth. A wide variety of textures are possible depending on the finish choice and application method. AkroLastic (elastomeric) or AkroSil (silicone enhanced) finishes are also available.

Installation & Design Requirements

- Substrates must be structurally sound, clean, dry, and free of all material that may reduce bonding of AkroGuard/AkroFill.
- Maximum allowable deflection of structural wall components is $^{1}/_{240}$ of the span. Final expansion and control joint design and location are the responsibility of the design professional.
- Sealants must be compatible with the adjacent EIFS components, be approved by Omega Products, and must meet ASTM C920 (Type S or M, minimum Grade NS, minimum Class 25, and Use O). Periodic sealant inspections required per sealant's manufacturer's requirements.
- Expansion joints are required at dissimilar substrates, floor lines in wood-framed construction in which lumber shrinkage will occur, where through wall expansion joints occur, where the EIFS abuts another material, and where structural movement is anticipated.
- Store and apply all component products per the product's data sheet.
- Do not use below grade. Terminate a minimum of 8-inches above grade, 6-inches above finished grade, or as specified by local code.
- Incorporate all water management components, including head, kick-out, sill, and other flashing types, to prevent bulk water from getting behind the foam board or running down the face of the EIFS.
- AkroGuard water-resistive air barrier system must be integrated with flashing and provide a continuous barrier to prevent water intrusion into the wall cavity.
- Insure the ribbons of adhesive attaching the foam board to the substrate run vertically and allow moisture to effectively drain. Provide weep screed or another means of drainage to allow any water that may get behind the foam board to escape to the exterior.
- Do not apply system when the ambient and surface temperatures are below 40°F (4°C). The use of OmegaCure will improve the hydration of cement-based adhesives and base coats at low temperatures.

[1] Manufactured by others.

[2] The use of primer will increase the length of the system's warranty.

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