AF AQUA-PLY PW

TECHNICAL DATA SHEET

Ponded Water Resistant Crosslinking Elastomeric

For Professional Use Only

DESCRIPTION

- Ponded water resistant, single component, water-based, crosslinking, all acrylic elastomeric system with exceptional UV and wear resistance, for high performance roof membrane systems
- Unlike silicones, offers unique combination of ponded water resistance and excellent dirt pickup resistance.
- High tensile properties result in a membrane with exceptional wear resistance.
- Unique crosslinking resin provides amazing UV resistance. Long term film erosion less than a quarter of industry leading technology!
- Environmentally friendly zinc free technology.
- Specially designed biocide package provides resistance to not only fungi but also protection against mildew and algae as well.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood and concrete.
- Has the unique ability to "breath", providing a watertight membrane while allowing trapped moisture to escape.

RECOMMENDED USES

AF Aqua-Ply PW is designed as a high performance, ponded water resistant, fully adhered, field installed roof membrane, for recover of most roofing surfaces including galvanized metal, concrete, PVC, Hypalon, EPDM, polyurethane foam and primed smooth and granulated asphaltic surfaces. Check with your Aqua-Fast representative for primer recommendations.

Property	Test Method	Result
Volume solids	ASTM D-1653	55.0 ±2%
Weight Solids	ASTM D-1644	66.0 ±2%
Tensile Strength (Reinforced Membrane)	ASTM D-2370	2200 ±50 PSI
Elongation (Reinforced Membrane)	ASTM D-2370	50 +10%
Tensile Strength	ASTM D-2370	300 ±20 PSI
Elongation	ASTM D-2370	140 ±20%
Permeability	ASTM D-1653	7 ± 2
Tear Resistance		ASTM D-624
VOC	EPA Method 24	< 50 g Liter
Low temperature Flexibility *(-15˚,1/2 in mandrel,1000hrs weathering)*		Pass
Hardness (Shore A)	ASTM D-2240	50 - 55
Reflectivity	ASTM C-1549	88%
Emittance	ASTM C-1371	.90
SRI	Calculated	108
Viscosity		120 ±10 KU
Density		11.1 lbs per gallon
Flashpoint		
Shelf Life (When stored between 40°F and 70°F (4°C - 21°C).		24 months (Unopened)
Clean Up		Water

Meets ASTM D6083 requirements. UL Class A fire rated. California Energy Commission Title 24 qualified. Meets California SCAQMD requirements for VOCs. Miami Dade approved.

COLORS

Standard Colors: White, Gray and Tan
Custom Colors are available for an additional charge.

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE	SHIPPING CLASS
55 Gallon drum (208.2 liters)	Class 55
5 Gallon pail (18.9 liters)	Class 55

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SURFACE PREPARATION

General: Surfaces to be coated should be dry, free of dust, dirt, oil, loose granules, gravel, peeling coating and other foreign matter. All wet insulation or foam should be removed and replaced with like materials.
For optimal results power wash all surfaces with a minimum of 2000 psi using a wide fan tip. All necessary precautions should be taken to avoid damage to the roof system. Mildew should be treated with a bleach solution (1 part bleach, 2 parts water) and rinsed thoroughly. Patch and repair cracks or holes with appropriate sealants or caulking materials.
Masonry: Allow fresh masonry to cure a minimum of 30 days, prime with Everprime GP.
Metal: Rusty metal must be cleaned with a wire brush and primed with Everprime Metal.
EPDM: Prime with Everprime EP primer/cleaner, ensure no primer residue remains.
PVC, Hypalon, aged TPO: Prime with Everprime SP.
Polyurethane foam: Apply directly (must be coated within 24 hours of installation).
Granulated Asphalt: Basecoat with Evercoat GS Base.
Smooth Asphalt: Basecoat with Evercoat SS Base.
Other: For other substrates refer to the Everest Primer Recommendation table.

APPLICATION

This product may be brushed rolled or sprayed on a clean, dry surface. For details see Equipment Recommendations at the end of this sheet. If sprayed, material should be at least 75°F. Before applying additional coat, the previous coat must be completely dry and cured. If any contamination is present on the cured surface it must be washed and completely dry before application of subsequent coats.

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Application Properties

Yield (1 gal to 100 sq ft)	**8.8 dry mils**
Dry Time (75° F)	**90 mins @ 50% humidity**
Recoat window	**>6 hrs**
Complete Cure	**30 days**

COVERAGE RATE

Apply AF Aqua-Ply PW at the rate of 1.5 gallons per 100 sq. ft. (24 wet mils). Surface texture and wind will affect applied mil thickness.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. Product must not be applied when the ambient temperature is below 50°F or if there is any possibility it could fall below 32°F within 24 hours of application. Application is not recommended if rain or dew is likely to occur before product dries. In high humidity conditions late afternoon applications should be avoided as overnight dew formation on uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

LIMITATIONS

Surface must be clean and dry. Application is not recommended on roofs with slopes less than 1/8 in 12 or where ponded water is present. Do not apply over wet substrates or when inclement weather is imminent. Complete cure of AF Aqua-Ply PW requires complete evaporation of water. Cool temperatures and high humidity retard cure. In addition, this product is not recommended for use without a vapor barrier in cryogenic tank or cold storage roofing applications. It is not intended for use as a thermal barrier.

SAFE PRACTICES

This product is designed for professional installation. Before working with this product, you must read and become familiar with the available information on its risks, proper use and handling. Information sources include but are not limited to MSDS and product labels. More resources are available at polyurethane.org, sprayfoam.org, everestsystemsco.com or by contacting Everest Systems directly.

EQUIPMENT

Minimum requirements:

Brush

- Synthetic filament

Roller

- 1¼" nap roller

Spray

- 30:1 fluid to air ratio capable pump
- 2 1/2 gallons or more per minute (continuous)
- Filter screen 30 mesh or larger
- Hose rated to 2x maximum pump pressure
- Hose lining should be compatible with coating and required cleanout materials
- Hose lengths: (Largest diameter at pump)
  - 3/8 minimum 6 ft wip
  - 3/8 minimum I.D. up to 75 feet
  - 1/2 minimum I.D. up to 200 feet
- 3/4 minimum I.D. over 200 feet
- Spray gun: Graco Hydra Mastic or equivalent
- Spray Tip:
  - Reversible self-cleaning type
  - Orifice size of .027 to .039
  - Fan angle of 40° to 50°
- Always use components rated for pump pressures.

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