

Primer for PVC and Aged TPO

For Professional Use Only

DESCRIPTION

- A high quality, plasticizer-free, single-component, water-based, acrylic primer for spray brush or roller application
- Designed to provide both excellent adhesion as well as plasticizer migration resistance
- Formulated to block plasticizer migration from PVC membranes that can cause unsightly discoloration and premature failure of elastomeric coating systems
- Has excellent adhesion to most single-ply surfaces including PVC, Hypalon, and aged TPO
- Provides excellent surface for subsequent application of acrylic and 100% solids silicone coatings
- Available in a low surface tack, ivory version, and black version for SPF applications
- Has the unique ability to "breathe," providing a completely watertight membrane while allowing trapped moisture to escape

RECOMMENDED USES

FortiPrime SP is designed as a primer for various single-ply membranes including PVC, Hypalon, and aged TPO.

Property	Test Method	Result
Volume Solids	ASTM D-1653	45.0 $\pm$ 2%
Weight Solids	ASTM D-1644	50.0 $\pm$ 2%
Tensile Strength	ASTM D-2370	75 $\pm$ 10 psi
Elongation	ASTM D-2370	1750 $\pm$ 10%
VOC	EPA Method 24	< 50 g Liter
Viscosity		300 + 100 cps
Density		8.8 lbs per gallon
Flashpoint		None
Shelf Life (when stored between 40°F and 70°F (4°C – 21°C))		24 months (unopened)
Clean Up		Water

COLORS

Clear, Ivory, and Black

PACKAGING/SHIPPING INFORMATION

CONTAINER SIZE

55 Gallon drum (208.2 liters)
5 Gallon pail (18.9 liters)

SHIPPING CLASS

Class 55
Class 55

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.

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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, the material should be at least 75°F. Before applying an 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.

Application Properties

Yield (1 gal to 100 sq ft)	7.5 dry mils
Dry Time (75° F)	45 mins @ 50% humidity
Recoat window	>6 hrs
Complete Cure	30 days

COVERAGE RATE

For aged TPO, apply FortiPrime SP at the rate of 0.5 gallons per 100 sq. ft. (8 wet mils).

For PVC, apply FortiPrime SP at the rate of 1.0 gallons per 100 sq. ft. (16 wet mils).

Surface texture and wind will affect applied mil thickness.

ENVIRONMENTAL CONDITIONS

This product cures by water evaporation only. The 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 the product dries. In high humidity conditions, late afternoon applications should be avoided as overnight dew formation on an uncured surface can cause coating wash-off. On marginal days, multiple applications of thin coats can ensure proper drying before rain or overnight freezes.

PONDED WATER

- FortiSystems coatings are not warranted to perform under ponding water.
- The National Roofing Contractors Association considers ponding water on any roof unacceptable. (See the NRCA Roofing and Waterproofing Manual).

LIMITATIONS

The 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 FortiPrime SP 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 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, www.fortisystems.com, or by contacting your FortiSystems representative 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.