

# Fire Retarded Flexible Pure Polyurea Coating

For Professional Use Only

## DESCRIPTION

- Highest performance, two-component, pure Polyurea coating for plural component spray application only.
- Cures to an ultra-flexible highly durable membrane.
- Fire resistant.
- Fast cure allows recoat in as little as 30 minutes.
- Cure rate optimized for excellent leveling.
- 100% solids ensure maximum film build per gallon.
- VOC-free, meets even the most stringent VOC regulations.
- Has excellent adhesion to most surfaces including metal, most single-ply roofs, wood, and concrete.

## RECOMMENDED USES

Fortimax FR is designed as a fire-resistant extremely durable and flexible, low shrinkage coating for spray foam applications.

## COLORS

Standard Colors: Gray.

Special Colors are available for an additional charge.

## PACKAGING/SHIPPING INFORMATION

### CONTAINER SIZE

55 Gallon drum (208.2 liters)

5 Gallon pail (18.9 liters)

### SHIPPING CLASS

CORROSIVE LIQUID, N.O.S. Hazard

Class: 8 (Corrosive Material), PG III.

Identification #: UN 1760

| Property                | Test Method    | Result         |
|-------------------------|----------------|----------------|
| Volume Solids           | ASTM D-1653    | 100 ± 2%       |
| Weight Solids           | ASTM D-1644    | 100 ± 2%       |
| Tensile Strength        | ASTM D-638     | 2800 PSI       |
| Elongation              | ASTM D-638     | 450%           |
| Tear Strength           | ASTM D-624     | 300 PLi ± 50%  |
| VOC                     | EPA Method 24  | 0 g Liter      |
| Hardness (Shore A)      | ASTM D-2240-81 | 80 ± 3         |
| Viscosity (A Component) |                | 750 ± 50 mPa.s |
| Viscosity (B Component) |                | 650 ± 50 mPa.s |
| Permeance               | ASTM E-96      | 0.1 Perms      |
| Flashpoint              |                | None           |
| Shelf Life              |                | 6 months       |
| Mix Ratio (by Volume)   |                | 1 "A" : 1 "B"  |

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## SURFACE PREPARATION

**General:** Surfaces to be coated should be dry, free of dust, dirt, oil, peeling coating, and other foreign matter.

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 substrate. 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 for a minimum of 30 days and prime with FortiPrime GP.

**Metal:** Rusty metal must be cleaned with a wire brush and primed with FortiPrime Metal.

**Other:** For other substrates, consult your FortiSystems representative.

## APPLICATION

This product must be sprayed using heated plural component equipment on a clean, dry surface. Temperature settings for A and B sides should be 160° F. For further details, see Equipment Recommendations at the end of this sheet. 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 the application of subsequent coats.

## APPLICATION PROPERTIES

|                                   |                      |
|-----------------------------------|----------------------|
| <b>Yield (1 gal to 100 sq ft)</b> | <b>16.0 dry mils</b> |
| <b>Gel Time (75° F)</b>           | <b>± 40 seconds</b>  |
| <b>Tack Free (75° F)</b>          | <b>± 60 seconds</b>  |
| <b>Recoat Window</b>              | <b>&lt; 12 hrs</b>   |
| <b>Post Cure</b>                  | <b>24 hours</b>      |

## COVERAGE RATE

Apply Fortimax FR at a minimum application rate of 3.0 gallons per 100 sq. ft. (48 wet mils). Surface texture and wind will affect applied mil thickness. Apply greater thicknesses in multiple coats. With a minimum of 1 hour and a maximum of 24 hours between coats.

## LIMITATIONS

The surface must be clean and dry. Do not apply over wet substrates or when inclement weather is imminent.

## 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](http://polyurethane.org), [sprayfoam.org](http://sprayfoam.org), [www.forti-systems.com](http://www.forti-systems.com), or by contacting your FortiSystems representative directly.

**WARNING:** Individuals with chronic respiratory problems or prior respiratory reactions to such materials should not be exposed to vapors. All personnel entering the application area, including the applicator, must wear suitable respirators.

## EQUIPMENT

Minimum requirements:

- Apply using heated, airless plural component spray equipment capable of at least 2000 psi pressure.
- Avoid hose lengths longer than 200 ft.
- Mechanical purge guns such as the GX-7 provide better coating physical properties than air purge guns.

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