

## PRECIDIUM™ 550D-FR

### DESCRIPTION

**PRECIDIUM™ 550D-FR** is a fire resistant, zero VOC, high performance polyurea elastomer designed to provide a flame resistant, durable, chemical resistant lining for construction industry applications where Class A Flame Spread and Smoke Developed ratings are required and as a surface coating for metal, concrete or wood. It is a fast set system for fast "return to service", applied with plural component spray equipment with a mix ratio of 1 to 1.

### PROPERTIES OF CURED PRODUCT

|   |               |
|---|---------------|
| Flame Spread Rating (ASTM E84)                        | 20            |
| Smoke Developed Rating (ASTM E84)                     | 115           |
| Flame Spread (ASTM E-162)                             | 22.60         |
| Avg. Rate of Peak Heat Release (ASTM E-1354) kW/sq.m) | 36.89         |
| Service Temperature                                   | -50° to 100°C |
| Gel Time  | 7 seconds     |
| Tack Time   | 2 minutes     |
| Service Time  | 24 hours      |
| Shore Hardness  | 50D approx.   |
| Elongation  | 75%           |
| Tensile Strength                                      | 1200 psi      |

### FEATURES

- Flame resistance.
- Excellent abrasion resistance.
- Highly resistant to impact over wide temperature range.
- Resistant to cracking under high flex conditions.
- Remains flexible at low temperature.
- Resistant to water and a wide range of chemicals.

### STORAGE

Store in a cool and dry place for product integrity. Store in tightly sealed containers to protect from moisture and foreign materials.

### AVAILABILITY

**PRECIDIUM™ FR Polyurea** is packaged in 52.9 US Gallon drums (200 Liter).

### PRODUCT SAFETY

An SDS is available upon request.

### INSTRUCTIONS

For application use a regulated high-pressure proportioner (1:1) and spray gun system capable of producing 2000-2500 psi. Thoroughly mix RESIN for 45 to 60 minutes prior to use. A minimum temperature of 100°F is required for both Resin and Iso prior to use. To ensure adequate mixing is achieved, a Dynamix Series MMX Drum Mixer or similar is recommended. This will re-suspend and maintain the uniformity of the product.

#### Mixer Specifications:

- Drive: Air Motor 3 hp (½ hp @ 300rpm)
  - Mount: 2" Bung Mount (Aluminum)
  - Shaft: Shaft Assy. 3/4" x 28" Long Shaft (304 SS)
  - Bottom Impeller: Impeller Assembly Fixed Dynaflo 8" Diameter - 3/4" Diameter Bore /4 Blades (304 SS)
  - Middle Impeller: Impeller Assembly Fixed Dynaflo 8" Diameter - 3.4" Diameter Bore /4 Blades (304 SS)
- Preheating RESIN may be necessary to achieve uniform mix. Check that no residue is left on bottom of drum after mixing to ensure performance of cured product.

#### Recommended Heat Settings.

|                  |             |
|------------------|-------------|
| Line/Pre-Heaters | 150°-160° F |
| Hose Heat        | 150°-160° F |

A minimum equipment requirement is the Graco EXP2. A Graco Fusion AP Gun with a AR4242 tip is recommended for application.

### OTHER

Recommendations for the use of our products are based on the specifications of this technical data and the test results published herein. Manufacturer and seller are not responsible for results where the product is used under any conditions outside those specified or beyond our control. The purchaser of this product must rely on his own judgement in determining suitability for his purpose, and in applying directions as to handling and use specified herein. Quantum Chemical makes no warranty, expressed or implied, except that if this product proves on inspection to be defective, Quantum Chemical will replace such quantity of the product proven to be defective or refund the purchase price of defective product. Labour costs and other consequential damages are hereby excluded. No representative or purported agent of Quantum Chemical has the authority to change this warranty. The information contained herein is subject to change without notice. If in doubt, contact your Quantum Chemical Representative for current information.