

## PRECIDIUM™ Vapour and Particle Barrier

### DESCRIPTION

**PRECIDIUM™ Vapour/Particle Barrier** is a 100% solids high performance two-component polyurea elastomer with excellent moisture and methane barrier properties. It provides an effective barrier to particles such as asbestos and many organic vapours encountered in brownfield developments. The improved green strength allows for better application in colder temperatures. It has consistent spray properties over a wide temperature range and excellent resistance to a wide range of chemicals. This fast-set system is intended for use with plural component spray equipment with a mix ratio of 1 to 1.

### FEATURES

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

### PROPERTIES

<b>Volume Solids</b>	100%
<b>VOC</b>	0
<b>Density</b>	1.10G/cc

**Methane Transmission** was undetectable under a pressure differential of 15 psi over 7 days during in house test.

	<u>Test Method</u>	<u>Result</u>
<b>Durometer D Hardness</b>	ASTM D2240	~40-55
<b>Tensile Strength (Die C)</b>	ASTM D412	2800 psi
<b>Elongation (Die C)</b>	ASTM D412	400%
<b>Tear Strength (Die C)</b>	ASTM D624	400 pli
<b>Abrasion Resistance</b>	ASTM D4060	1000 cycles
(CS-17 Wheel, 1000 g load)		0 mg loss
(H-18 Wheel, 1000 g load)		140 mg loss
<b>Pot Life</b>		~6 seconds
<b>Tack Free</b>		~12 seconds

Sprayed with a Graco E-10 proportioner, using a Fusion AP Gun with AR4242 mix module.

Results are for specific testing requirements; other conditions and equipment may result in different physical properties.

### INSTRUCTIONS

For application use a regulated high-pressure proportioner (1:1) and spray gun system capable of producing 1600-2700 psi. Thoroughly mix RESIN for 45 to 60 minutes prior to use. Preheating RESIN and ISO to approximately 80° F will improve performance.

#### Recommended Heat Settings.

Line/Pre-Heaters	140°-150° F
Hose Heat	140°-150° F

Apply only to properly prepared substrate. Apply first coat at less than 10 mil; should be tack free before continuing. Apply following coats at 20 mil per coat and allow surface to become tack free before application of subsequent coats. Spray with uniform motion and allow 50 to 75% overlap.

### STORAGE

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

### AVAILABILITY

**PRECIDIUM Vapour/Particle Barrier** is packaged in 50 US gallon drums.

### PRODUCT SAFETY

An SDS is available from Quantum Chemical.

### 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 representative for current Technical Data Sheets (TDS).