

Part # 10395 RhinoPak™ SM Isocyanate
Part # 10395 RhinoPak™ SM Resin Clear

DESCRIPTION:

RhinoPak™ SM is a two-component, 100% solids (no solvents), zero VOCs, rapid curing, aliphatic, polyurea hybrid elastomer. This product combines the durability of a tough elastomer with the color and gloss stability of a urethane top coat into one product. The light-stable protective lining system is packaged in a dual 750 ml cartridge for use with the lightweight, portable RhinoPro™ Cartridge Gun. The disposable, quick-load cartridges are great for small jobs, hard to reach places and repairs.

TYPICAL USES:

- Paint replacement
- Color stable applications
- Excellent protective lining for applications requiring color stability and durability such as:
 - Floor and wall protection in industries such as food processing, food storage, veterinary, production area and laboratories
 - Marine applications such as boat decks
 - Walkways, stairwells and decks
- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size.
- Casting of small parts, void filling
- Elastomeric properties allow for application to surfaces subject to: vibration, expansion, contraction, movement, flexing, abrasion, and impact.

FEATURES AND BENEFITS:

- Lining thickness varies based on application, ranging from 40 mils (1mm) to 100 mils (2.5mm). Truck bed floor minimum: 80 mils (2mm).
- High tensile strength & tear strength properties
- Bonds to virtually all substrates of any dimension, including metals, woods, concrete and fiberglass, with proper surface preparation
- Good chemical resistance
- Superior color retention
- Excellent corrosion resistance
- Good impact resistance
- Very good abrasion and impact resistance
- Stable from -40°F (-40°C) to 175°F (80°C)

CHEMICAL PROPERTIES:	TEST	ISOCYANATE (A)	RESIN (B)
Specific Gravity (grams/cc)	ASTM D-792	1.15	1.06
Viscosity, CPS at 80° F (26.7° C)		950 - 1150	1100 - 1300
Solids by Volume/Weight		100%	100%
Volatile Organic Compounds		0 lbs/gal	0 lbs/gal
Mix Ratio, Parts per Volume		1	1
Mix Ratio, Parts per Weight		105	100

CHEMICAL PROPERTIES:**ISOCYANATE (A)****RESIN (B)**

Gel Time, seconds at 77° F (25° C)	2 - 5	
Tack Free Time, seconds	2 - 7	
Full Cure	72 hrs	
Theoretical Coverage	1600 sqft/gal at 1 mil thick	
Odor	slight musty	
Freezing Point	< 50°F (10°C)	
Color	clear	clear
Shelf Life - Unopened Containers	12 months	12 months

TYPICAL PHYSICAL PROPERTIES:**Test****Result**

Hardness (Shore D)	ASTM D-2240	60 ± 5
Tensile Strength (psi)*	ASTM D-412	2100 ± 2400
Tear Resistance (pli) Die C*	ASTM D-624	300 - 370
Elongation (%)*	ASTM D-412	40 - 50
Density (lb/ft ³)	ASTM D-1622	65 - 70
Mandrel Bend, 180°, 2 inch mandrel	ASTM D-522	Pass
Water Absorption-24 hours	ASTM D-570	1.0
Slip-Resistance	NFPA 1901 15.7.4	Pass
Elcometer Adhesion Pull Test	ASTM D-4541	Pass

*Properties were checked of polyurethane lining, 1/8" (125 mils), (3.18 mm) thick stock.

Equipment Used	Process Temperature
Dual Cartridge with static mix tube, air atomization and dry air	80° – 100°F (27° – 38°C) on cartridge

DRY FILM THICKNESS RANGE:

Varies based on application, typically a minimum of 1/16" (62.5 mil; 1.6mm) up to unlimited thickness

SURFACE PREPARATION:

Before applying RhinoPak SM, the surface should be prepared properly following recommended Rhino Linings® procedures. The substrate should be clean, dry and free of oil, dirt or other contaminant's. It is ideal to roughen the surface to create a profile to bond to. Depending on the application, the use of the appropriate Rhino Linings primer may be required for best results.

APPLICATION INSTRUCTIONS:

Please refer to the RhinoPro Cartridge Gun manual for complete instructions on using these cartridges. The RhinoPak must be shaken in the RhinoPro™ Cartridge Shaker for 4 to 5 minutes prior to spraying. This procedure ensures proper distribution of pigment and other components. RhinoPak SM cartridge's chemical temperature must be between 80°F and 100°F (27° – 38°C) when sprayed.

NOT RECOMMENDED FOR:

- Sustained temperatures below -40° F (-40° C) or above 175° F (79.4° C)
- Application to high density polyethylene or thermo plastics

CHEMICAL RESISTANCE:

RhinoPak SM provides good resistance to many commercial and industrial chemicals such as acids, alkalis, oils and cleaning chemicals. For specific applications and information, please consult a Rhino Linings representative.

SUBSTRATES:

Metals, wood, concrete, fiberglass, and geotextile.

COLOR OPTIONS:

Standard color is clear, pigments must be added to achieve the desired color. Pigments sold separately.

STORAGE:

Cartridges should be stored at 60 – 90° F in a dry condition in their original packaging. If RhinoPak cartridge has been stored longer than 1 week, shake cartridge to ensure proper distribution of chemicals and pigment.

SAFETY PRECAUTIONS:

Health Considerations: Consult the Rhino Linings® Safety Data Sheets (SDS)

This chemical system requires the use of proper safety equipment and procedures. Please follow the Rhino Linings product SDS for detailed information and handling guidelines.

For Your Protection: The information and recommendations in this publication are, to the best of our knowledge, reliable. Suggestions made concerning the products and their uses, applications, storage, and handling are only the opinion of Rhino Linings Corporation. Users should conduct their own tests to determine the suitability of these products for their own particular purposes and of the storage and handling methods herein suggested. The toxicity and risk characteristics of products made by Rhino Linings Corporation will necessarily differ from the toxicity and risk characteristics developed when such products are used with other materials during a manufacturing process. The resulting risk characteristics should be determined and made known to end users and processors.

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