

RhinoPak 70D Off White, Part # 10376-CS

**DESCRIPTION:** RhinoPak™ 70D is a two-component, 100% solids (no solvents), zero VOCs, rapid curing, elastomeric polyurethane lining system specifically designed for excellent chemical resistance. The RhinoPak™ 70D has a Shore hardness rating of 70D similar to the Hi-Chem™ products. The 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:**

- Durable hard protective lining with excellent chemical resistance
- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size.
- Casting of small parts, void filling

**FEATURES & BENEFITS:**

- Lightweight and portable
- Great for small jobs, hard to reach places and repairs
- Disposable, quick-load cartridges
- Excellent corrosion resistance
- Excellent chemical resistance
- Dense chemical structure imparts high impermeability
- Stable from -40°F (-40°C) to 175°F (80°C)

**CHEMICAL PROPERTIES:**

	<b>Isocyanate (A)</b>	<b>Resin (B)</b>
Solids by Volume/Weight	100%	100%
Volatile Organic Compounds	0 lbs/gal	0 lbs/gal
Mix Ratio, Parts per Volume	1	1
Gel Time, Seconds at 80°F (27°C)	15 ± 5	
Tack-free, Minutes	1 – 5 (based on ambient temperature)	
Cure, Hours at 70°F (21°C)	24	
Theoretical Coverage	8 sqft/1500ml cartridge at 1/16" (62 mil) thick	
Shelf Life - Unopened Containers	12 months	12 months

**TYPICAL PHYSICAL PROPERTIES:**

	<b>Test</b>	<b>Result</b>
Hardness (Shore D)	ASTM D-2240	70±5
Tensile Strength (psi)*	ASTM D-412	2200 – 2500
Elongation (%)*	ASTM D-412	20 – 30
Tear Resistance (pli) Die C*	ASTM D-624	250 – 300

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

**PROCESSING CHARACTERISTICS:**

<b>Equipment Used</b>	<b>Process Temperature</b>
Dual Cartridge with static mix tube, air atomization and dry air	70° – 90°F (21° – 32°C) on cartridge

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

**SURFACE PREPARATION:** Before applying RhinoPak™ 70D, 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 (PN# 10423) 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 insures proper distribution of pigment and other components. RhinoPak™ 90A cartridge's chemical temperature must be between 70°F and 90°F (21° – 32°C) when sprayed.

**NOT RECOMMENDED FOR:**

- Sustained temperatures below -40° F (-40° C) or above 175° F (79.4° C)

## **RHINOPAK™ 70D** *(continued)*

**COLOR OPTIONS:** Standard color - off-white.

**STORAGE:** Cartridges should be stored at 60 – 90°F (16° – 32°C) in a dry condition in their original packaging. If RhinoPak™ cartridge has been stored longer than 1 week, shake cartridge to insure 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 and Safety Manual 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 ultimate end-users and processors.

Because of numerous factors affecting results, **Rhino Linings Corporation makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings Corporation hereby disclaims any and all other warranties, including but not limited to those of merchantability or fitness for a particular purpose. No statements made herein may be construed as a representation or warranty. The liability of Rhino Linings Corporation for any claims arising from or sounding in breach of warranty, negligence, strict liability, or otherwise shall be limited to the purchase price of the material.

©2019 Rhino Linings Corporation. All rights reserved.



**Rhino Linings Corporation**

9747 Businesspark Avenue, San Diego, CA 92131

858-450-0441 • Fax 858-450-6881

1-800-422-2603

[www.rhinolinings.com](http://www.rhinolinings.com)