

Part A – HiChem™ 21-70 Iso – Part # 60060

Part B – HiChem™ 65D-PW Resin – Part # 60074

**DESCRIPTION:**

HiChem™ 65D-PW is a two-component, 100% solids, rapid curing, elastomeric polyurethane lining system. HiChem PW shares the HiChem formulation as Rhino Linings family of product's most chemical resistant formulation, remaining stable in a variety of immersion applications. It meets the NSF/ANSI 61 potable water standard. HiChem PW is designed to be sprayed with RhinoPro™ plural component spray equipment, either low pressure or high pressure. Typically it is sprayed onto metal and concrete surfaces, but it can adhere to almost any substrate.

**TYPICAL USES:**

- Durable protective lining with excellent chemical resistance for applications such as:
  - water tank linings
  - primary and secondary containment
  - chemical processing equipment, tank lining and wet wells
  - water and wastewater
  - immersion service
- Spray-on application creates a monolithic, seamless lining which conforms to any shape and size

**FEATURES & BENEFITS:**

- Excellent corrosion resistance
- Excellent water and chemical resistance
- Excellent flexibility for impact and abrasion resistance
- 100% solids with no VOCs or solvents
- Stable from -5°F to 175°F (-20.6°C to 79.4°C)

**CHEMICAL PROPERTIES\*:**

	Isocyanate	Resin
Mix Ratio, Parts per Volume	1	2
Gel Time, Seconds	25 – 30	
Solids by Volume/Weight	100%	100%
Volatile Organic Compounds	0 lbs/gal	0 lbs/gal
Shelf Life - Unopened Containers	12 months	6 months

\*Properties were tested at 77°F (25°C).

**TYPICAL PHYSICAL PROPERTIES:**

	Result	Test
Hardness (Shore D)	ASTM D-2240	65±5
Tensile Strength (psi)**	ASTM D-412	2000 – 2200
Elongation (%)**	ASTM D-412	60 – 80
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 Wheel; 1000 grams weight	ASTM D-4060	50 – 60
Tear Resistance (pli)** Die C	ASTM D-624	190 – 210
Water Absorption (%)	ASTM D-570	≤1.6
Dielectric Strength (volts/mil)	ASTM D-149	300
Volume Resistancy (ohm/inches)	ASTM D-257	6 X 10 (12)
Dielectric Constant (MHz)	ASTM D-150	5.4
Dissipation Factor (MHz)	ASTM D-150	0.058
Cathodic Disbonding	ASTM G-8	Pass

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

**DRY FILM THICKNESS RANGE:** Varies based on application, typically used at 80 mils (2 mm) to 160 mils (4 mm)

**SUBSTRATES:** Metals, wood, concrete, fiberglass and geotextiles

**HICHEM 21-65 PW** (continued):

**HOW SUPPLIED:** Net weight per set is 950 pounds (430.9 kg). A set of HiChem PW consists of one (1) 55 gallon (208 L) drum of 'A' component and one (1) 55 gallon (208 L) drum of 'B' component.

**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.

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**Rhino Linings Corporation**

9747 Businesspark Avenue, San Diego, CA 92131  
858-450-0441 • Fax 858-450-6881  
1-800-422-2603  
[www.rhino linings.com](http://www.rhino linings.com)