

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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