



**Rhino™
Hi-Chem™ PW**



Data Sheet



ISO 9001:2000
FM62236

Part A Isocyanate – Hi-Chem A232, Part # 60060
Part B Resin – Hi-Chem 65D-PW, Part # 60074

DESCRIPTION:

Hi-Chem™ 65D-PW is a two-component, 100% solids, rapid curing, elastomeric polyurethane lining system specifically designed for potable water applications. This product has passed the rigorous testing requirements of the NSF/ANSI 61 potable water standard and is NSF listed. It is also approved and listed under NSF 50 for pool and spa applications. Hi-Chem 65D-PW is designed to be sprayed with RhinoPro™ plural component spray equipment, either low pressure or high pressure.

FEATURES & BENEFITS:

- Excellent corrosion resistance.
- Excellent water and chemical resistance.
- Excellent flexibility for impact and abrasion resistance.
- Complies with NSF/ANSI 61 Potable Water Standard.
- Complies with NSF/ANSI 50 Pool and Spa Standard.
- 100% solids with no VOCs or solvents.
- Stable from -40°F (-40° C) to 175° F (79.4° C).



RECOMMENDED USES:

- Durable protective lining with excellent water and 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.

PHYSICAL PROPERTIES OF HI-CHEM 65D-PW:

Hardness (Shore D)	65 ± 5	ASTM D-2240
Tensile Strength (psi)*	2000 – 2200	ASTM D-412
Elongation (%)*	60 – 80	ASTM D-412
Tear Strength (pli) Die C*	190 – 210	ASTM D-624
Taber Abrasion Resistance (mg of loss/1000 cycles) CS17 wheel; 1000 grams weight	50 – 60	ASTM D-4060

*Properties were checked using Hi-Chem™ PW lining 1/8" (125 mils), (3.18 mm) thick.

SUBSTRATES:

Concrete, fiberglass, metals, wood and geotextiles.

DRY FILM THICKNESS RANGE:

Varies based on application, typically used at 80 mils (2 mm) to 160 mils (4 mm).

SHELF LIFE:

Part A - Isocyanate: Twelve months, unopened.
Part B - Resin: Six months, unopened.

COLOR OPTIONS:

Base color is off-white. Certain custom colors are also available.

Rhino™ Hi-Chem™ PW

SAFETY PRECAUTIONS OF HI-CHEM™ PW:

Health Considerations: Consult the Rhino Linings® Material Safety Data Sheets.

The uncured components of Hi-Chem™ can cause irritation to the eyes, skin, mucous membranes and are harmful if swallowed. When handling, avoid contact with eyes and skin (especially open cuts). In case of contact, immediately wash off with plenty of water for at least fifteen (15) minutes. For eyes, obtain medical attention. Always wash hands before eating. Obtain immediate medical attention in case of ingestion.

Hi-Chem™ contains isocyanates and may cause allergic skin or respiratory reactions. Do not use if you have chronic breathing problems (asthma) or if you have ever had reactions to isocyanates. When applying Hi-Chem™, avoid breathing harmful vapors. Fresh air-supplied standard painter's hood and full face respirator must be worn by all personnel entering the area where Hi-Chem™ is being spray applied until all vapors have been exhausted. In case of extreme exposure or adverse reaction, remove affected personnel to fresh air immediately and obtain medical help.

Hi-Chem™ components are combustible liquids Class IIIB. Store and transport according to regulation.

Important: Consult the Rhino Linings® Material Safety Data Sheets.

Read and follow warning labels on all components. Follow cautions and handling guidelines in Rhino Linings® Technical Reference Manual. The information herein is believed to be reliable, but unknown risks may be present. All warranties of any kind, expressed or implied, including warranties of fitness for a particular purpose, are specifically disclaimed.

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 USA, Inc. 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 USA, Inc. 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 USA, Inc. makes no warranty of any kind, express or implied**, other than that the material conforms to its applicable current Standard Specifications. Rhino Linings USA, Inc. 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 USA, Inc. 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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