



Hi-Chem™ Polyurethane

ABBREVIATED DATA SHEET

Date Revised: 11-01-01

■ GENERIC TYPE:

Elastomeric polyurethane. 100% solids (no VOCs, no solvents).

■ GENERAL PROPERTIES:

Hi-Chem™ is a two component, 100% solids (no VOCs, no solvents), exothermic, rapid curing, elastomeric polyurethane lining system.

- Minimum recommended thickness approximately 1/16" (62.5 mils), (1.6 mm).
- Maximum thickness - unlimited.
- Good sound reduction.
- Excellent weather resistance.
- Excellent corrosion resistance.
- Excellent chemical resistance.

■ RECOMMENDED USES:

Elastomeric properties allow for application to surfaces subject to:

vibration, expansion, contraction, movement, flexing, chemical exposure and corrosion.

Bonds to virtually all substrates of any dimension.

Reduces noise transmission.

Stable up to 175° F (78.6° C).

Impervious, monolithic secondary containment coating for concrete and many other substrates.

Chemical processing equipment, tank coating, wet wells.

Concrete protection from sulfide-based gases.

Immersion service.

■ NOT RECOMMENDED FOR:

Hydrostatic barriers.

Sustained temperatures above 175° F (78.6° C).

Concrete substrates subject to high impact.

High density polyethylene or thermo plastics.

High abrasion resistance.

■ SUBSTRATES:

Concrete, fiberglass, metals and wood.

■ VOLATILE ORGANIC CONTENT:

None. 100% solids.

■ DRY FILM THICKNESS RANGE:

Approximately 1/16" (62.5 mils), (1.6 mm) - unlimited.

■ TYPICAL PHYSICAL PROPERTIES OF Hi-Chem™:

Hardness (Shore D)	70	ASTM D-2240
Tensile Strength (psi)*	2460	ASTM D-412
Elongation (%)*	25 - 30	ASTM D-412
Taber Abrasion Resistance (mg of loss/1000 cycles)		
CS17 Wheel; 1000 grams weight	53	ASTM D-4060
Impact Resistance (100 mil thickness sample)	No cracking deterioration	Gardner Tester

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

For additional information,
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