

Hygrothane Waterproofing Membrane

Product Description

Hygrothane is a spray applied, two-component polyurea waterproofing system designed to provide long lasting protection against water and moisture for various applications. Applied using a high-pressure system, Hygrothane cures quickly to form a seamless monolithic waterproofing membrane which conforms easily to irregular surfaces.

The complete system optimizes construction schedules by allowing installation at a wide range of temperatures. The polyurea membrane is extremely resilient. It protects the substrate from soil, rocks and other abrasive materials while remaining flexible enough to bridge any cracks that may form.

See technical guide for substrate preparation and application information.

Recommended Applications

- Residential and commercial construction
- Poured concrete and masonry waterproofing systems
- ICF foundation wall systems
- Elevated roadways and bridges
- Wastewater and sewage applications
- Elevator pit waterproofing
- Below grade waterproofing in both hydrostatic and nonhydrostatic conditions

Features

- VOC-free formula
- Can be applied in below freezing temperatures
- Solvent free, 100% solids
- High chemical resistance
- High abrasion resistance
- Flexible and seamless membrane
- Tack free in 30 seconds
- Impact resistant

Approvals and Certifications

CCMC compliance testing as an alternative solution that complies with Canadian provincial building code requirements (CCMC #14144-R).

LEED documentation and International Certified EPD available. Manufacturer inventory reporting content inventory with product threshold of 100 ppm (0.01%).

Installers are encouraged to receive training from the manufacturer if they are unfamiliar with the chemicals and equipment used to manufacture polyurea coatings.

Technical Properties

Attribute	Test	Results
Dry Film Thickness	ASTM D5147	1.27 mm (50 mils)
Tensile Strength	CAN/CGSB 37-GP-56M	392N (MD) 400N (XD)
Elongation	CAN/CGSB 37-GP-56M	334% (MD) 347% (XD)
Water Vapour Transmission	ASTM E96	58 ng / (Pa·s·m ²) @ 1.27mm or 50 mils
Peel Strength	CAN/CGSB 37.58-M86 ASTM C794	1726 N/m
Water Absorption	CAN/CGSB 37.58-M86	0.43%
Low Temp Flexibility	CAN/CGSB 37.58-M86 ASTM C794	-40°C No Crack
Dimensional Stability	CAN/CGSB 37.58-M86	0.38% (MD) 0.43% (XD)
Horizontal Burn	UL 94	HB (Self extinguishes)
Static Puncture	CAN/CGSB 37-GP-56M (-15°C)	Pass Rating 4
Dynamic Puncture	CAN/CGSB 37-GP-56M (-15°C)	Pass Rating 4
Crack Bridging	ASTM C1305 (-20°C & 40°C)	Pass No splitting or loss of adhesion
Water Tightness*	CAN/CGSB 37.56-M86	Pass
Lap Peel	ASTM D1876	1680 N/m
Pull Adhesion on Concrete (With Primer)	ASTM D4541	5.84 MPa 847 lb/in ²
Pull Adhesion on Concrete (Without Primer)	ASTM D4541	3.56 MPa 516 lb/in ²
Adhesion of Poured Concrete to Hygrothane**	ASTM D4541-M	10,000 N/m ² 1.45 lb/in ²
Resistance to Hydrostatic Head	ASTM D5385	92 m 301 ft
CCMC #	-	14144-R
Colour	-	Black

*After puncture, impact, chemical aging, heating aging and UV aging

**With acrylic concrete primer