POLYFLEX 304

ULTRA-CHEM

DESCRIPTION

Polyflex 304 is a high-performance Polyurea Hybrid membrane designed for the protection of steel and/or concrete substrates. Polyflex 304 is engineered for industrial applications requiring superior chemical resistance, waterproofing or elements buried in soil.

PRODUCT FEATURES

- Fast drying
- Exceptional corrosion resistance
- Excellent waterproofing
- Direct application to properly prepared steel surfaces
- Superior chemical resistance
- Solvent free, 100% solids
- Provides structural reinforcement
- Can be applied with low pressure, static mixer equipment

RECOMMENDED USES

- Secondary containment
- Truck and bed liners
- Mining industries
- Steel pipe protection (interior/exterior)
- Repair or replace existing membranes
- Concrete pipe protection (interior/exterior)
- Superior protection against petroleum and chemicals

TECHNICAL DATA

Color:	Available in several colors	**Flash Point:**	> 149°C (300.2°F)
Type of Cure:	2 components	**V.O.C.:**	0
Binder:	Polyurea/Polyurethane	**Drying times:**	
Solids by volume:	100 %	**Gel Time:**	25 - 35 seconds
Solids by Weight:	100 %	**Tack Free:**	2 - 4 minutes
Theoretical Coverage of 1 mil:	1604 ft² / U.S. gallon	**To recoat:**	30 minutes
D.F.T. at 25 microns:	149 m² / 3.78 litres	**Hard:**	8 hours
Recommended D.F.T.:	30 – 100 mils	**Catalyst:**	304C
	750 – 2500 microns	**Ratio:**	1:1
Resin viscosity:	700 CPS @ 25°C (77°F)	**Shelf life:**	1 year
Isocyanate viscosity:	700 CPS @ 25°C (77°F)	**Packaging:**	18.93 litres (5 U.S. gallons) 205 litres (55 U.S. gallons)

Revised 6/5/2013

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Disponible en Français

APPLICATION GUIDE

SURFACE PREPARATION: See Polyval's Polyurea Application Guide

CLEANING INSTRUCTIONS: Cleaning agent: Tolulene, Xylene, MEK. To reduce the risk of fire, use glycol ether acetate or any enviro-friendly chlorinated solvent

APPLICATION PROCESS: Plural component heated pump. In order to obtain the optimum results outlined below system must be capable of applying at a pressure greater than 2,500 PSI at a temperature of 70°C (160°F). Before application, the receiving coat surface must be cleaned of dirt, soluble salts, dust, oils, grease, chalking, and contaminants. Normal preparation includes vacuum, blow-off, SSPC-SP-1 "solvent cleaning," or water-wash containing salt solubilizing agents. This product is normally applied over previously primed surfaces. For more details on the surface preparation of the primer, see that specific data sheet. Scuff sanding is required before recoating. Clean in accordance with SSPC-SP-1 "solvent cleaning" before recoating. *Take care to ensure that proper film thickness is achieved. For more information, consult the Steel Structures Painting Council (SSPC) publication, Good Painting Practice.*

** Can be applied with low-pressure, static mixer equipment at room temperature.*

PHYSICAL PROPERTIES

Properties under tension: (ASTM D 412-C) (ASTM D 412-C)	Ultimate Elongation = 30 % Tensile Strength = 29.8N/mm² (4325 PSI)	**Indication of hardness:** (ASTM D 2240)	65-70 Shore D
Resistance to tearing: (ASTM D 624-C)	Tear strength = 51.9 N/mm (296 PLI)	**Mandrel Bend test:** (ASTM D-522)	Pass: ¾ in.

Taber abrasion resistance: (ASTM D-4060) 1000 cycles, 1000g load	**Abrasion wheel type**	**Average weight loss**
	CS - 10	N/D
	CS - 17	53.9 mg
	H - 18	485 mg

Impact resistance:

(ASTM D 2794)

Direct @ 25°C (77°F): 80 in-lb. (9.0 joules)
Direct @ 4°C (40°F): 72 in-lb. (8.1 joules)

Keep in cool and dry area. See the material safety data sheet and product label for complete safety and precaution requirements.
Chemical resistance information is currently being updated according to ASTM standards. Please contact your local representative for an update.