

Polyflex 304

polyurea

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

Wasser Polyflex 304 is a high-performance Polyurea/Polyurethane membrane designed for the protection of steel and concrete. Wasser Polyflex 304 is intended for industrial applications where the substrate is buried in soil or immersed in an aqueous environment. It also serves as a semi-structural lining to enhance substrate physical strengths while providing a hard shell finish.

Product Features

- No VOC, low odor
- Fast drying
- Excellent chemical resistance
- Excellent waterproofing
- 100% solids
- Provides structural reinforcement
- Abrasion resistant

Area of Use

Substrates

- Steel
- Concrete/CMU

Possible Uses

- Secondary Containment
- Mining Industries
- Chemical Processing Facilities
- Refineries
- Oil & Gas Pipeline
- Food Processing Facilities
- Dry Holds/Wet Holds

Ready Reference Information

Color: Several Colors

Type of cure: 2 component

Resin Type: Polyurea/Polyurethane

***Solids by volume:** 100%

***Solids by weight:** 100%

V.O.C. None

Recommended dry film thickness/coat:
30-100 mils (762-2500 µm)

Theoretical Coverage:
At 1 mil: 1,604 ft²/gal (25 µm: 39.4m²/l)

Ratio: 1:1

Catalyst: WP304A

Pot Life: N/A

DRY TIMES

Gel Time

Fast - WP304F: 15 seconds
Regular - WP304: 25-35 seconds
Slow - WP304SS: 50 seconds

Tack Free

2-4 minutes

Re-coat Maximum¹

12 hours

Hard Dry

8 hours

Recommended System

Wasser Polyflex 111 PU Primer
Wasser Polyflex 304

**Note: Other systems are available. Contact your Wasser Representative to answer any questions*

¹Scuff sanding or apply WP-50 Activator before re-coating with Wasser Polyflex 304 outside of this time frame.

Surface Preparation

See: Wasser's Polyflex Elastomeric Coatings Installation Procedure.

Application Information

Plural component heated pump: In order to obtain the optimum results outlined below, system must be capable of applying at pressures greater than 2,500 psi and at temperatures of 140 - 160°F.

Before application, the receiving coat surface must be cleaned of dirt, soluble salts, dust, oils, grease, chalking, and other contaminants. Normal preparation includes vacuum, blow-off, SSPC-SP-1 "solvent cleaning". This product is normally applied over previously primed surfaces.

Take care to ensure that proper film thickness is achieved. For more information, consult the Steel Structures Painting Council (SSPC) publication, Good Painting Practice.

Performance Testing Data

Properties under tension:

Properties	Test Method	
Solids Content %:	100	
Minimum Shore Hardness, D:	65-70	ASTM D-2240
Ultimate Elongation %:	30	ASTM D-412-C
Tensile Strength, psi:	4325	ASTM D-638
Tear Strength, pli, Die C:	296	ASTM D-624-C
Mandrel Bend Test: (Mandrel ¾")	Pass	ASTM D-522
Impact Resistance:	Direct: 77°F > 80 in-lb Direct: -40°F > 72 in-lb	ASTM D-2794

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

Ordering Information

Product Numbers:	WP304 A (Catalyst) WP304 B (Resin)
Package Size:	5 gallon pails (10 gallon sets) 55 gallon drums (110 gallon drum sets) <i>Order in sets only</i>
Shelf Life:	1 year
Flash Point:	300.2° F (149°C)

Safety Precautions

See the material safety data sheet and product label for complete safety and precaution requirements.

"The following is made in lieu of all warranties, expressed or implied: Manufacturer's obligation shall be to replace such quantity of the product proven to be defective.

The manufacturer shall not be liable for any injury, loss or damage, direct or incidental or consequential, arising out of the use of or the inability to use the product.

Before using, the user shall determine the suitability of the product for the intended use and the user assumes all risk and liability whatsoever in connection therewith.

All values shown are approximations. Values indicated are for guide purposes only, as actual values can change due to application conditions, application methods, environmental conditions etc.

The information contained herein is subject to change without notice." Contact your Wasser Representative for current Product Data Sheets.