

Polyflex 411 ShearCoat

polyurea

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

Wasser Polyflex 411 is a high performance, slow setting polyurea waterproofing membrane. The slower gel time allows aggregate to be broadcast into the membrane before initial set. Wasser Polyflex 411 ShearCoat is part of a comprehensive bridge waterproofing system typically used on heavy highway projects. It can also be used for general industrial applications where abrasion resistance and waterproofing is needed.

Product Features

- Slower gel time
- Provides seamless flexible membrane
- Low temperature flexibility
- Can accept asphalt overlays within one hour
- Will accept aggregate broadcasts to form various levels of non-skid finishes

Area of Use

Substrates

- Concrete
- Steel
- Geo-textile

Possible Uses

- Concrete Bridge Deck Waterproofing
- Secondary Containment
- Industrial Flooring
- Oil & Gas
- Marine

Ready Reference Information

Color:	Several Colors	Recommended dry film thickness/coat:	30-100 mils (762-2540 µm)
Type of cure:	2 component	Theoretical Coverage:	At 1 mil: 1,604 ft ² /gal (At 25 µm: 39.4m ² /l)
Resin Type:	Polyurea	Ratio:	1:1
*Solids by volume:	100%	Catalyst:	WP411 A
*Solids by weight:	100%	Pot Life:	N/A
V.O.C.	None		
Viscosity:	350-750cps (A) / 800-1300cps (B)		

DRY TIMES

Gel Time	30 seconds
Tack Free	5 minutes
Re-coat Maximum¹	12 hours
Min. Cure Time Prior to Traffic	1 hours

¹Scuff sand or apply WP-50 Activator before re-coating with Polyflex 411 outside of this time frame.

Surface Preparation

See: Wasser's Polyflex Elastomeric Coatings Installation Procedure.

Recommended Systems

Concrete Bridge Deck Waterproofing System:

Polyflex 111 PU Primer
Polyflex 311 Membrane
Polyflex 411 ShearCoat
Polyflex 511 TackCoat

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

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	Test Method	
Solids Content %:	100	
Shore Hardness, D:	42-52	ASTM D-2240
Elongation %:	300-350	ASTM D-638
Tensile Strength, psi:	1500-2000	ASTM D-638
Tear Strength, pli:	350-400	ASTM D-624-C
Crack Bridging Test, 1/8"	Pass	ASTM C-1305

80 mils at -15°F for 40 Cycles with 1/8" opening

Ordering Information

- Product Numbers:** WP411 A (Catalyst)
WP411 B (Resin)
- Package Size:** 5 gallon pails (10 gallon sets)
55 gallon drums
(110 gallon drum sets)
Order in sets only
- Shelf Life:** 1 year stored @ 45°F - 80°F
- Flash Point:** 300.2° F (149°C)

Safety Precautions

Precaution:

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.