

Polyflex 203

polyurea

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

Wasser Polyflex 203 is a high performance, aliphatic Polyurea membrane. It provides excellent waterproofing, corrosion and abrasion resistance with color retention for outdoor applications. It provides excellent protection and durability in continuous water immersion.

Product Features

- Superior anti-corrosive protection for steel
- Protective membrane on metal, masonry, wooden reservoirs, silos and many kinds of pipes and stone slabs
- Outstanding color retention
- Excellent abrasion resistance
- Fast drying, back in service rapidly
- Can be used to repair or replace existing membrane.
- Easy to apply

Area of Use

Substrates

- Concrete and CMU
- Steel

Possible Uses

- Waste water treatment plants
- Waterproofing concrete
- Pulp and paper mills
- Roofing
- Corrosion protection for steel
- Food processing facilities
- Refineries

Ready Reference Information

Color:	Available in several colors
Type of cure:	2 component
Binder:	Aliphatic Polyurea
*Solids by volume:	100%
*Solids by weight:	100%
V.O.C.	None
Resin viscosity:	100-400 CPS @ 77°F (25°C)
Isocyanate viscosity:	200-500 CPS @ 77°F (25°C)

Recommended dry film thickness/coat:
20-80 mils (500-2000 µm)

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

Ratio: 1:1

Catalyst: WP203A

Pot Life: N/A

DRY TIMES

Gel Time	5 - 10 seconds
Tack Free	1 - 2 minutes
Re-coat Maximum¹	12 hours
Hard Dry	8 hours

Recommended Systems

Used with primers:

Wasser Polyflex 111PU, MC-Universal 100 and MC-Miozinc 100

**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 203 outside of this time frame.

SURFACE PREPARATION

See Wasser's Polyflex Elastomeric Coatings Installation Procedure.

CLEANING INSTRUCTIONS

Cleaning agent: Toluene, Xylene, MEK. To reduce the risk of fire, use glycol ether acetate or any environmentally 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, blowoff, 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.

Recommended set-up temperature should be 49-60°C (120 - 140°F), Pressure 2000 - 2500 psi.

Performance Testing Data

Properties under tension:

(ASTM D-412-C) Ultimate Elongation = 1000%
Tensile Strength = 1750 PSI (12.07 N/mm²)

Resistance to tearing:

(ASTM D-624-C) Tear strength = 300 PLI (52.6 N/mm)

Indication of hardness:

(ASTM D-2240) 90 Shore A

Impact resistance:

(ASTM D-2794) Direct: @ 77°F (25°C): > 160 in-lb (>18 joules)
Reverse: @ 77°F (25°C): > 160 in-lb (>18 joules)
Direct: @ -4°F (-20°C): > 160 in-lb (>18 joules)
Reverse: @ -4°F (-20°C): > 160 in-lb (>18 joules)

Taber abrasion resistance:

(ASTM D-4060) 1000 cycles, 1000g load	Abrasion wheel type	Average weight loss
	CS - 10	N.D.
	CS - 17	12.6 mg
	H - 18	509 mg

Ordering Information

Product Numbers: WP203A (Catalyst)
WP203B (Resin)

Package Size: 5 US gallons (18.93 litres),
55US gallons (205 litres)

Shelf Life: 1 year

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.