Wasser Polyflex 201PW

Product Description

Polyflex 201 PW is an NSF 61 listed, high performance polyurea coating/lining for steel and concrete tanks as well as steel, concrete and ductile iron pipes. Polyflex 201 PW offers superior service life in a variety of climatic conditions for potable water or chemical service.

Area of Use

Substrates
Steel
Concrete
Ductile Iron
Geotextile
Concrete (CMU)
Galvanized Metal
Aluminum / Non-Ferrous Metal

Possible Uses
Potable Water Tanks / Pipe Linings
Water Treatment Facilities
Waste Water Treatment Plants
Chemical Processing Facilities
Refineries
Pulp and Paper Mills
Food Processing Facilities
Dry Holds/Wet Holds

Ready Reference Information

Color: Several Colors (beige only, for NSF 61 service)

Type of cure: 2 components
Resin Type: Polyurea

***Solids by volume:** 100%
***Solids by weight:** 100%

V.O.C.: None
Flash Point: 300.2°F (149℃)

Certified to ANSI/NSF 61

Recommended dry film thickness/coat: 30-100 mils
762-2545 microns

Theoretical Coverage: At 1 mil: 1604 ft^2/gal
At 25 microns: 149m^2/3.78lt.

Ratio: 1:1
Catalyst: 201C or 915635 for NSF certification

Pot Life: n/a
Shelf Life: 1 year

Drying Times and Temperatures

Gel Time: 5-10 seconds
Tack free: 10-30 seconds
To recoat: 12 hours maximum
(scuff sanding required before recoating with Polyflex 201 PW outside of this time frame)
Hard dry: 8 hours
Immerse: 24 hours
Topcoat with Moisture Cure Urethane or Wasser Polyflex 102 Rapid Thane Polyaspartic: 1 hour

Product Features

- Can be applied over Wasser MCU primer in as little as 4 hours.
- Can be placed back in potable water service in as little as 24 hours.
- Can be top coated with Wasser MCU or Wasser 102 Rapid Thane Polyaspartic in as little as 1 hour.
- Provides a protective membrane/lining having superior performance properties when compared to market standards when placed in a wide variety of different climatic conditions.
- Excellent for use in geo-textile application.

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Recommended Systems

Used with primer:
Steel: MC-Ferroclad 100 PW
Concrete: MC-CR 100

Compatible Coatings

Can be top-coated in one hour with:
MC-Ferrox A 100
MC-Luster 100
MC-Shieldcoat 100
MC-Antigraffiti 100
Wasser Polyflex 102 Rapid Thane Polyaspartic

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

Surface Preparation

See Wasser's Polyurea Application Guide

Application Information

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 140 - 160℉.

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 such as MC-Zinc 100, MC-Miozinc 100 or MC-Ferroclad 100 PW, MC-CR 100 or Geotextile.

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.

Performance Testing Data

Properties under tension:	
(ASTM D 412-C)	*Ultimate Elongation = 400 %* *Tensile Strength = 13.6 N/mm² (1972 PSI)*
(ASTM D 412-C)	
Resistance to tearing: *(ASTM D 624-C)*	*Tear strength = 87.5 N/mm (500 PLI)*
Linear Thermal Expansion: *(ASTM E381-00) modified*	*Mean coefficient of Linear Expansion from -30℃ to -40℃* *= 168 µm/m℃*

Indication of hardness: *(ASTM D 2240)*	*90 - 95 Shore A* *47 - 53 Shore D*
Dielectric strength: *(ASTM D-149-97a)*	*= 19.3 KV/mm (490 V/mil)*
Flexibility at a cold temperature: *(ASTM) D-3111*	*Conditioned at - 40℃ (- 40℉) for 24 hours* *Tested at 23℃ (73.4℃) with mandrel ½ inches*

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Resistance in compression: ***(ASTM D 1621-00)***	*= 2776.6 kPa (10 %)*	***Slip resistance:*** *(ASTM F -1679)*	*Overall average COF: > 0.97*
Flexural Secant Modulus at 2 % strain: *(ASTM D790-00)*	*= 165.4 kN/m*	***Cold bending:*** *(ASTM D2136-94)*	*accept*
Resistance to intemperate: *Conditions (ASTM G-63)*	*No cracking, peeling or loss of integrity after 2000 hours.*	***Impact resistance:*** *(ASTM D746-95)*	*accept*
Water Permeability: *(NFP D 84-515)*	*0.0036 perm@1630 micron (65 mils) thick sample*	***Water Absorption*** *(ASTMD-471)*	*24 hours at ambient temperature, 1.5 %*
Impact resistance: *(ASTM D-2794)*	*Direct: 77℃ > 160 in-lb* *Reverse: 77℃ > 160 in-lb* *Direct: -4℃ > 120 in-lb* *Reverse: -4℃ > 100 in-lb*		

Taber abrasion resistance: *(ASTM D-4060)*
1000 cycles, 1000g load

Abrasion wheel type	***Average weight loss***
CS - 10	*17.0 mg*
CS - 17	*23.0 mg*
H - 18	*310 mg*

Certifications and Qualifications

ANSI/NSF 61 Certification

Ordering Information

Product Numbers: WP201PW A, WP201PW B, (Beige only for NSF)

Package Size: 5 gallon pails (10 gallon sets)
55 gallon drums (110 gallon drum sets)
Order in sets only

Shelf Life: 1 year

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.

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