

POLYFLEX PW

AQUA-PUR

DESCRIPTION

Polyflex PW is a **NSF61 CERTIFIED** high-performance Polyurea lining for use on both steel and concrete water tanks. Polyflex PW offers superior service life in a variety of climatic conditions for potable water. **RAPID RETURN TO SERVICE**.

PRODUCT FEATURES

- Specially designed for piping and tanks that contain potable, fresh and salt water.
- Superior anti-corrosive protection for steel
- Protective membrane on metal, masonry, wooden reservoirs, silos and many kinds of pipes and stone slabs
- Results in a smooth seamless membrane & aesthetic surface

Polyurea

• Repair or replace existing membranes

- Application on geotextile to form ponds, to retain overflow, prevent effluent leakage, water and petroleum product leakage.
- Approved by NSF61
- Back to service in as little as 24 hours
- NO VOC's and low odor



Certified to ANSI/NSF 61

RECOMMENDED USES

- Potable water tank linings
- Water and waste-water treatment plants
- · Food processing Facilities
- Pulp and paper mills

- Corrosion protection for steel
- Chemical Processing Facilities
- Pipe linings
- Refineries

TECHNICAL DATA

Color: Beige and blue Flash Point: > 149°C (300.2°F)

Type of Cure: 2 components V.O.C.: None

Solids by volume: 100 % Gel Time: 5 - 10 seconds

Solids by Weight: 100 % Tack Free: 15 - 20 seconds

Theoretical Coverage of 1 mil: 1604 ft² / US gallon **To recoat**: 10 seconds to 4 hours

D.F.T. at 25 microns: 149m²/3.78 litres **Hard:** 30 minutes

Back to service: 24 hours @ 24°C (75°F)

Drying times:

 Recommended D.F.T.
 30 - 100 mils
 Catalyst:
 915635

750 - 2500 microns Ratio: 1:1

Resin viscosity: 550 CPS @ 25°C (77°F) **Shelf life:** 1 year

Revised 3/7/2013

Binder:





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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.

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Properties under tension: Ultimate Elongation = 400 %

(ASTM D 412-C) Tensile Strength = 13.6 N/mm² (1972 PSI)

(ASTM D 412-C)

Tear strength = 87.5 N/mm (500 PLI) Resistance to tearing:

(ASTM D 624-C)

(ASTM D 1621-00)

Linear Thermal Expansion:

= 165.4 k N/m

Mean coefficient of Linear Expansion from -30°C to -40°C

No cracking, peeling or loss of integrity after 2000 hrs.

(ASTM E381-00) modified $= 168 \mu m/m$ °C

Resistance in compression: = 2776.6 kPa (10 %)

Flexural Secant Modulus at 2

% strain: (ASTM D790-00)

Resistance to intemperate:

Conditions (ASTM G-63)

Water Permeability: 0.0036 perm@1630 micron (65 mils) thick sample (NFP D 84-515)

Taber abrasion resistance:

(ASTM D-4060) 1000 cycles, 1000g load

indication of	00 05 65			
hardness:	90 - 95 Shore			
naraness.	47 - 53 Shore [

(ASTM D 2240)

Dielectric strength: = 19.3 KV/mm (490 V/mil)

(ASTM D-149-97a)

Flexibility at a cold

Conditioned at - 40°C (- 40°F) for 24 hours temperature: Tested at 23°C (73.4°C) with mandrel ½ inches (ASTM) D-3111

Slip resistance:

(ASTM F -1679) Overall average COF: > 0.97

Cold bending:

(ASTM D2136-94) Accept

Impact resistance:

(ASTM D746-95) Accept

Water Absorption

(ASTMD-471) 24 hours at ambient temperature, 1.5 %

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

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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.



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