

Product Description

Wasser Polyflex 59PW is a high performance hybrid coating/lining for both steel and concrete tank. Could be used as steel and concrete primer underneath of Wasser Polyflex PW or as a self-priming thick coating for interior protection of potable water tanks. Wasser Polyflex 59PW offers superior service life in a variety of climactic conditions.

Product Features

- Specially designed for tanks containing potable, fresh and salt water
- Protective membrane on metal, masonry, wooden reservoirs, silos and stone slabs
- Results in a smooth seamless membrane and aesthetic surface
- Back to service after 7 days
- Low VOC and low odor
- Can be used to repair or replace an existing membrane
- Superior anti-corrosive protection for steel
- Can be used with Wasser Polyflex Filler to fill holes and voids in concrete



Area of Use

Substrates

- Steel
- Concrete

Possible Uses

- Potable water tank linings
- Food processing facilities
- Pulp and paper mills
- Corrosion protection for steel
- Concrete reservoirs

Ready Reference Information

Color:	White, Blue
Type of cure:	2 component
Resin Type:	Polyurethane
*Solids by volume:	84-88%
*Solids by weight:	88-92%
V.O.C.	0.83lbs/gal (100g/l)
Kit Viscosity:	95 -100 KU at 77°F (25°C)
Kit Specific gravity:	1.16 - 1.23 kg/l
Pot life:	1 - 1.5 hours

Recommended dry film thickness/coat (as primer under Wasser Polyflex PW): 4.5 - 5.5 mils

Recommended wet film thickness(as primer under Wasser Polyflex PW): 5.2 - 6.3 mils

Recommended dry film thickness/coat (as a self-priming thick coating): 18 - 23 mils in two coats

Recommended wet film thickness (as a self-priming thick coating): 20.7 - 26.4 mils or two coats

Theoretical Coverage:
@ 1 mil: 1428 ft²/gal (25µm: 35.19 m²/l)

Catalyst: WP59A.0.X

Reduction solvent (if necessary): W49.0 (10% by volume)
Ratio: 2:1 by volume, (2 parts Resin/1 part Catalyst)

Thinner can be added depending on local VOC and air quality regulations.

DRY TIMES

68°F/20°C (20 mils (0,5 mm) DFT

Tack Free	3 hours
Re-coat (min)	4 hours
Re-coat (max)	72 hours
Hard Dry	24 hours
Back to Service	7 days

Recommended coating systems:

1st Coat: Wasser Polyflex 59PW: 4 mils DFT (100 µm)

2nd Coat: Wasser Polyflex 201PW: 60 - 80 mils DFT

1st Wasser Polyflex 59PW: 9-12 mils DFT (100 µm)

2nd Wasser Polyflex 59PW: 9 - 12 mils DFT

Surface temperature must be at 5°F (3°C) above the dew point during application

Surface Preparation

Before application, the receiving coat surface must be cleaned of dirt, soluble salts, dust, oils, grease, chalk and contaminants. Normal preparation includes vacuum, blow-off, SSPC-SP-1 "solvent cleaning" or water-wash containing salt solubilizing agents.

Prepare surface in accordance with SSPC-SP-5 (white metal blast cleaning) for immersion.

Mixing and Thinning

First, power mix the base portion Wasser Polyflex 59PW until it becomes homogeneous. Second, add catalyst 599C slowly with continued agitation until both base and catalyst parts are well mixed together. Then the product is ready for immediate use.

Dilution when applied by:

- Air spray and airless spray: 10% dilution by volume with W49.0 if necessary.
- Brush and roller: Dilution is not required

Airless Spray:

Pump Ratio:	30:1
Pressure:	1500-3000 psi
Hose:	3/8", 50' Max
Tip Size:	0.13-0.017
Filter Size:	50 mesh (300 µm)

Conventional Spray: (DeVilbiss MBC, JGA or equivalent)

Fluid Nozzle:	E Fluid Tip
Air Cap:	704 or 765
Atomizing Air:	45 - 75 lbs.
Fluid Pressure:	15 - 20 lbs.
Hose:	1/2" ID; 50' Max

Cleaning agent: Toluene, Xylene, MEK. To reduce the risk of fires, use glycol ether acetate or any environmentally friendly chlorinated solvent.

Performance Testing Data

Properties under tension:

(ASTM D 412-C)	Ultimate Elongation = 155 %	Tensile Strength = 860 PSI (5.93 N/mm ²)
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Adhesion to steel by pull-off strength:

(ASTM D 4541)	MC-Universal 100 = 550 PSI (3.79 N/mm ²)
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Hardness:

(ASTM D 2240)	70 Shore A / 20 Shore D
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Taber abrasion resistance:

(ASTM D-4060) 1000 cycles, 1000g load	164 mg (CS-17 wheel)
(ASTM D-4060) 1000 cycles, 1000g load	464 mg (H-18 wheel)

Impact resistance:

(ASTM D 2794)	Direct @ 77°F (25°C): 160 in-lb (18 joules)
	Indirect @ 77°F (25°C): 160 in-lb (18.0 joules)

Ordering Information

Product Numbers: White WP59B.7001.X
Blue WP59B.4068.X
Catalyst WP59A.0.X

Package Size: Base 2 gal. (7.57l)
in a 3 gal. (11.36l) container
Catalyst 1 gal. (3.78l)

Shelf Life: 1 year, @ 77°F (25°C) unopened

Flash Point: 86°F (30°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.