Wasser Polyflex 102 Rapid Thane Polyaspartic

Product Description

Wasser Polyflex Polyaspartic is a two-component, single application, high-build, aliphatic topcoat. It is designed for use as part of a revolutionary two-coat rapid deployment system which saves both time and money. This product is ideal for use over one of Wasser's MCU primers for applications on steel, ductile iron, or concrete substrates.

Area of Use

Substrates
Over properly prepared:

- Ferrous Metal
- Aluminum/Non-Ferrous Metals
- Ductile Iron
- Galvanized Metal
- Concrete/ Concrete Block
- Previously Existing Coatings

Possible Uses

- Bridges
- Structural Steel
- Tanks
- Water and Wastewater Treatment Facilities
- Food Processing Facilities
- Hydro Power
- Material Handling Equipment
- Refineries
- Pulp and Paper Mills
- Chemical Processing Facilities
- Concrete Structures
- Pipes
- Floors
- Hydrants

Ready Reference Information

Color: All colors
Gloss: High
Type of cure: 2 component crosslinking
Binder: Polyaspartic Polyurea

***Solids by volume:** 81+/-2% (mixed)
***Solids by weight:** 88+/-2% (mixed)

V.O.C. <1.7 lbs./gal
Recommended dry film thickness: 6.0 - 10.0 mils
150-250 microns
Recommended wet film thickness: 8.0-12.0 mils
200-305 microns

Theoretical Coverage:
At 1 mil: 1,300 ft^2/gal
At 25 microns: 120.77 m^2/3.78 lts.

Reduction solvent: Wasser MC-Thinner
Wasser MC-Thinner 100
Reduction: Up to 10% as needed

Part C Catalyst: Wasser PolyFlex WP102C
Ratio: 3:1

Pot Life: 1 hour when mixed

Drying Times and Temperatures

	50°F	75°F	95°F
Tack Free	4 hours	2 hours	1 hour
To Recoat	6 hours	4 hours	2 hours
Hard Dry	7 days	5 days	4 days

Buried service acceptable

Product Features

- Excellent gloss and color retention.
- Tough, hard film.
- Remarkable chemical and corrosion resistance.
- Excellent abrasion resistance.
- Can achieve high-build application up to 10 mils dft (250 microns) in one coat.
- Immersion Service

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Recommended Systems

Moisture Cure Urethane (MCU) Coatings:

Steel/Ductile Iron Primers:
MC-Zinc
MC-Miozinc
MC-Ferroclad 100 PW

Concrete Primers:
MC-CR

Performance Testing Data

Taber abrasion resistance		
(ASTM D-4060)	Abrasion wheel type	Average weight loss
1000 CYCLES, 1000 g load	CS-17	121 mg
Salt fog resistance (3,000 hours)*		
(ASTM B117)	ASTM D-1654 (scribe) = 10	
	ASTM D-714 (blister) = 10	
Accelerated weathering (3,000 hours)		
ASTM D-4587	Color change less than 1 ΔE	

*Tested with primer of MC-Miozinc 3 mils

Mixing and Thinning

The entire contents of the containers must be mixed well before application. Thinning is not required; however, for brush or roller application, up to 10% MC-Thinner/MC-Thinner 100 can be added, depending on local VOC air quality regulations. Mix well until the two components until obtain a homogeneous paint.

*Reduction Solvent:**	*Wasser MC-Thinner or Wasser MC-Thinner 100*
Reduction:	*Up to 10% according to the application*
Catalyst/hardener:	*3 parts Wasser Polyflex 102 Rapid Thane WP102A.XXXX.*
	1 part C catalyst WP102C.

Paint temperature must always be above the dew point before mixing and application.
Contact Wasser representative when solvent reduction may be needed.

Compatible Coatings

Moisture Cure Urethane (MCU) Coatings:

Primers:
MC-Zinc 2.8
MC-Zinc 100
MC-Miozinc 2.8
MC-Miozinc 100
MC-Ferroclad 100 PW
MC-CR 2.8
MC-CR 100

Surface Preparation

Atmospheric Exposure: SP6 Commercial Blast
Severe Exposure: SP10 Near White Blast*
*For Ductile Iron, see Ductile Iron Application Guide

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Application Information

Before application, the receiving coat surface must be cleaned of dirt, soluble salts, dust, oils grease, chalking, or 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, MC-Miozinc or MC-Ferroclad. Material and substrate temperature must be 5°F above dew point temperature. Application temperature minimum 20°F.

Substrate temperature	***Recoating time***	
	Minimum	*Maximum*
50°F	*6 hours*	*2 months**
75°F	*4 hours*	*2 months**
95°F	*2 hours*	*2 months**

*Scuff sanding is required before recoating.
Clean in accordance with SSPC-SP-1 "Solvent cleaning" before recoating.

Brush and Roller:	*Touch-up, repair, or full-coat application*	*Conventional Spray:*	*Similar to DeVilbiss 510;*
Airless spray:	*Heavy duty 30 to 1 airless*		*moisture trap should be placed*
Tip size:	*0.017"-0.021" pressure 3000 psi*		*before the pot.*
Fluid hose:	*Minimum 3/8 in.ID;maximum 50 ft (4.65m) length.*	*Fluid tip:*	*0.55 to 0.73 in; 30 to 60 psi*
	Longer hose length may require an increase		*pressure.*
	in pump pressure.	*Air cap:*	*Similar to DeVilbiss 704*
		Fluid hose:	*Minimum 1/2 in. ID; Maximum*
			50 ft (4.65m) length.

Ideally, pressure pots or pumps should be at the same level as spray guns or above. Keep fluid pressures to a minimum.
Take care to ensure that proper film thickness is achieved. For more information, consult the Steel Structures Painting Council (SSPC) publication, Good Painting Practice.

Ordering Information

Product Numbers: WP102A.XXXX.1 (1 Gal Kit)
WP102A.XXXX.35 (4 Gal Kit)

Rapid Thane Catalyst: WP102C.4 (1 Gal Kit
WP102C.1 (4 Gal Kit)

Package Size: **1 gallon kits and 4 gallon kits**
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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