

# Polyflex 102 Rapid Thane

polyurea/topcoat

**WASSER**  
ADVANCED COATINGS TECHNOLOGY

## Product Description

Wasser Polyflex 102 Rapid Thane Polyaspartic is a two-component, single application, highbuild, high performance aliphatic topcoat. It is designed for use as part of a rapid deployment system which saves both time and money. Wasser Polyflex 102 Rapid Thane has excellent gloss and color retention and meets the strictest VOC requirements. This topcoat is ideal for use over most of Wasser's MCU primers, or can be applied directly to metal.

## 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 µm) in one coat
- Immersion Service

## Area of Use

### Substrates

- 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

<b>Color:</b>	All colors	<b>Recommended dry film thickness/coat:</b>	6.0-10.0 mils 150-250 µm
<b>Gloss:</b>	High	<b>Recommended wet film thickness:</b>	7.0-11.0 mils 171-279 µm
<b>Type of cure:</b>	2 component cross-linking	<b>Theoretical Coverage:</b>	At 1 mil: 1,363 ft <sup>2</sup> /gal At 25 µm: 126.6 m <sup>2</sup> /gal
<b>Binder:</b>	Polyaspartic Polyurea	<b>Reduction solvent:</b>	MC-Thinner, MC-Thinner 100
<b>*Solids by volume:</b>	85%+/-2 (mixed)	<b>Reduction:</b>	Up to 10% as needed
<b>*Solids by weight:</b>	88%+/-2 (mixed)	<b>Part C Catalyst:</b>	Wasser Polyflex WP102C
<b>V.O.C.</b>	<0.8 lbs./gal	<b>Ratio:</b>	3:1
		<b>Pot Life:</b>	1 hour when mixed

DRY TIMES	50°F/10°C	75°F/24°C	95°F/35°C
Tack Free	4 hours	2 hours	1 hour
Re-coat Minimum	6 hours	4 hours	2 hours
Re-coat Maximum <sup>1</sup>	2 months	2 months	2 months
Hard Dry	7 days	5 days	4 days

## Recommended Systems

### Primers:

MC-Zinc 100	3.0-5.0 mils DFT
MC-Miozinc 100	3.0-5.0 mils DFT
MC-Universal 100	4.0-5.5 mils DFT

### Topcoats

MC-Clear 100	1.5-2.0 mils DFT
MC-Antigraffiti 100	1.5-2.0 mils DFT

\* **Min. cure temp: 41°F (5°C)**

Buried service acceptable

<sup>1</sup>Scuff sanding is required before re-coating.

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## Surface Preparation

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

## 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 obtain a homogeneous paint.

**Reduction Solvent:** \*MC-Thinner or 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 a Wasser representative when solvent reduction may be needed.*

## Application Information

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, MC-Miozinc or MC-Ferroclad. Material and substrate temperature must be 5°F above dew point temperature. Clean in accordance with SSPC-SP-1 "Solvent cleaning" before re-coating.

**Brush and Roller:** Touch-up, repair, or full-coat application  
**Airless spray:** Heavy duty 30 to 1 airless  
**Tip size:** 0.013"-0.019" pressure 3000 psi  
**Fluid hose:** Minimum 3/8 in. ID; maximum 50 ft (4.65m) length. Longer hose length may require an increase in pump pressure.  
**Conventional Spray:** Similar to DeVilbiss 510; moisture trap should be placed before the pot.  
**Fluid tip:** 0.55 to 0.73 in; 30 to 60 psi pressure  
**Air cap:** Similar to DeVilbiss 704  
**Fluid hose:** Min 1/2 in. ID; Max 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.

## Performance Testing Data

Taber abrasion resistance (ASTM D-4060)	Abrasion wheel type	Avg. 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

*\*Tested with primer of MC-Miozinc 3 mils*

**Accelerated weathering (3,000 hours)**  
(ASTM D-4587) Color change less than 1 ΔE

## 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.