

Polyflex 112 Rapid Thane

polyurea/topcoat

WASSER
ADVANCED COATINGS TECHNOLOGY

Product Description

Wasser Polyflex 112 Rapid Thane is a two-component, high-build, polyaspartic topcoat. It is designed for use as part of a rapid deployment system which saves both time and money. Wasser Polyflex 112 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, color and adhesion retention
- Tough, hard film
- Remarkable chemical and corrosion resistance
- Excellent abrasion resistance
- Can achieve high-build application up to 8 mils DFT (200 microns) in one coat
- Contains anticorrosive pigments without heavy metals
- Can be also used as DTM

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

Color:	RAL & Federal	Recommended dry film thickness/coat: 6.0-8.0 mils 150-200 µm
Gloss:	85°+	Recommended wet film thickness: 8.0-11.0 mils 200-275 µm
Type of cure:	2 component cross-linking	Theoretical Coverage: At 1 mil: 1,171 ft ² /gal At 25 µm: 109 m ² /gal
Binder:	Polyaspartic Polyurea	Reduction solvent: WP46.0 (Wasser MAK)
*Solids by volume:	73%+/-2 (mixed)	Reduction: Up to 10% as needed
*Solids by weight:	80%+/-2 (mixed)	Part C Catalyst: Wasser Polyflex WP112C
V.O.C. 1.6 lbs./gal		Ratio: 3:1
		Pot Life: 3 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 ¹	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

¹*Scuff sanding is required before re-coating.*

Ver. 17.12.01.C

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Surface Preparation (When used as DTM)

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% of Wasser MAK (Methyl Amyl Kertone) can be added, depending on local VOC air quality regulations. Mix well until the two components obtain a homogeneous paint.

Reduction Solvent: *WP46.0 (Wasser MAK)
Reduction: Up to 10% according to the application
Catalyst/hardener: 3 parts Wasser Polyflex 112 Rapid Thane WP112A.XXXX. / 1 part C catalyst WP112C.

*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	< 90 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

Adhesion by pull-off strength (ASTM 4541): 12.5 MPA (1820 psi) **Tested with primer of MC-Miozinc 3 mils*

Impact resistance (ASTM D2794): Direct (77F/25C): 160 in-lb (18 joules), Indirect: 160 in-lb (18 joules)

Flexibility (ASTM D522): No cracking at minimum (3.2mm) Maudrel Diameter

Ordering Information

Product Numbers: WP112A.XXXX.1 (1 Gal Kit)
WP112A.XXXX.35 (4 Gal Kit)
Rapid Thane Catalyst:
WP112C.4 (1 Gal Kit)
WP112C.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.