

PRODUCT DESCRIPTION

Polyur 112 DTM serie Is a hybrid polyaspartic gloss two-component aliphatic used direct – to – metal finish. It offers an excellent gloss and color retention as well as excellent anti-corrosive protection.

PRODUCT FEATURES

- One coat application directly to steel
- Excellent gloss and color retention
- Tough and hard film
- Excellent abrasion resistance
- Can be applied at 200 microns (8 mils) wet in only one coat
- Contains anti-corrosive pigments without heavy metals
- Excellent chemical and corrosion resistance
- Excellent chemical resistance and anti-corrosive protection

TYPICAL USES

- Original Equipment Manufacturer's (OEM)
- Mobile and agricultural equipment
- Structural steel
- Storage tanks and reservoirs
- Flat beds
- Floors

TECHNICAL DATA

| | | | |
|--------------------------------------------|----------------------------------------|---------------------------|------------------------------------------------------------|
| Colors available: | Available in several colors | Drying times: | |
| Gloss: | 85°+ | Dust free: | 2 hours |
| * Solids by volume: | 73 % +/-2% | To recoat: | 2 hours |
| * Solids by Weight: | 80 % +/- 2 % | Hard: | 24 hours |
| Theoretical Coverage of 1 mil: | 1171 ft ² / U.S gallon | Pot Life: | 3 hours |
| D.F.T. at 25 microns: | 109 m ² / 3.78 liters | Reduction solvent: | 101604 |
| Recommended D.F.T. mils: | 6.0 – 8.0 | Dilution: | 15 % by volume (if necessary) |
| Dry film thickness microns: | 150 - 200 | Catalyst: | 112C |
| Viscosity: | 80 -100 ku | Ratio: | 3:1 by volume |
| *specific gravity | 1.10 – 1.22 kg/lit | Shelf life: | 12 months @ 25°C (77°F)unopened |
| Flash Point: | 15°C (59°F) | Packaging: | 2.84L (3/4 gallon US) 11.36L (3 gallon US) in 5 US gal. |
| V.O.C.: | < 200 grs/lit. < 1.67 lbs / US gal. | | |
| Immersion: | Non recommendé | | |
| * Data may vary according to colors | | | |

Keep in cool and dry area

***revised on January 24, 2020**



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APPLICATION GUIDE

SURFACE PREPARATION

Remove all grease, oil, and dirt in accordance with standard SSPC – SP – 1 "solvent cleaning" with surface preparation according to standard SSPC-SP-6 (commercial blasting).

Can be applied on surface in accordance with standard SSPC-SP-14 (industrial blasting) industrial shot blasting, One coat of Mono Zinc 390 will increase anticorrosive performances.

The sandblasting profile should be between 37.50 et 62.50 microns (1½ and 2½ mils). After surface preparation, vacuum or blow the dust, dirt, or contaminants and ensure surface stay clean before application.

MIXING AND THINNING

First, power mix the base portion until it becomes homogenous. Secondly, add catalyst slowly with continued agitation until both base & catalyst parts are homogenous.

Thinning is not required; however, for brush and roller application up to 10% of reducer can be added, depending on local VOC and air quality regulations. Mix the two components very well until paint becomes homogenous.

Reduction solvent: 101604 **Catalyst:** 112C

Dilution: 10 % by volume (if necessary)

Mixing ratio: 3:1 by volume

APPLICATION PROCESS

| | | | | **RECOATING TIME | |
|-----------------------|----------|-----------|----------|-------------------------|---------|
| Substrate temperature | Catalyst | Dust free | Hard | Minimum | Maximum |
| 25°C (77°F) | 112C | 2 hours | 24 hours | 2 hours | 7 days |

Brush and roller: For small surfaces only. Use clean synthetic roller 10mm.

****Abrade slightly after recoat has lapsed**

| CONVENTIONAL SPRAY | | AIRLESS SPRAY | |
|---------------------------|------------------------------------------|----------------------|------------------------------|
| Manual Spray gun: | DeVilbiss JGA-510, MBC-510 or equivalent | Pump Ratio: | 30:1 |
| Fluid Nozzle: | E Fluid Tip | Pressure: | 1500 – 3000 Psi |
| Air Cap: | 704 or 765 | Hose: | ¾ inch, 50 ft length maximum |
| Atomizing Air: | 45 – 75 lbs | Tip Size: | 0.013 – 0.017 |
| Fluid Pressure: | 15 – 20 lbs | Filter Size: | 50 Mesh (300 um) |
| Hose: | ½ inch, 50 ft length maximum | | |

PHYSICAL PROPERTIES

Adhesion by pull-off strength:

(ASTM D 4541 Surface preparation according to standard SSPC-SP-6 (commercial shot blasting)= 6.9N/mm²

Salt spray test:

(ASTM B117) 2000 hours: very good

Impact resistance:

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

UV condensation exposure:

(Astm D4587) Cycle #2 : 3000 hours : VERY GOOD

SPECIAL INSTRUCTIONS & PRODUCT LIMITATIONS

- Thinner can be added depending on local voc and air quality regulations
- Humidity and temperature will affect the drying time
- Surface temperature must be at 3°C (5°F) above the dew point during application
- Surface and temperature must be at 5°C (41°F) minimum

See the material safety data sheet and product label for complete safety and precaution requirements

DISCLAIMER:

"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. Consult your representative for a current data sheet. The foregoing may not be altered except by an agreement signed by the officers of the manufacturer."

Chemical resistance information is currently being updated according to ASTM standards Please contact your local representative for an update.



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