

Direct-to-Metal POLYASPARTIC

DESCRIPTION

Polyur 104 DTM is a high gloss two-component aliphatic polyaspartic polyurethane, that is suitable to be used as a high build direct-to-metal (DTM) finish. It offers an excellent gloss and color retention as well as excellent corrosion protection.

FEATURES

- Apply one coat directly to steel
- Excellent gloss and color retention
- Tough hard film
- Excellent chemical and corrosion resistance
- Excellent abrasion resistance
- Can be applied with a high build, up to 312 microns (12.5 mils) wet
- Contains anti-corrosive pigments without heavy metals
- Suitable for use with plural-component spray equipment
- Can be applied over zinc rich primer for extra corrosion protection

RECOMMENDED USES

- Mobile and agricultural equipment
- Structural steel
- Storage tanks and reservoirs
- Flat beds

TECHNICAL DATA

Colors available:	Full range of colors	Drying times:	
Gloss:	High gloss	Dust free:	1 hour
* Solids by volume:	74 % +/- 2 %	To recoat:	2 -3 hours
* Solids by Weight:	78 % +/- 2 %	Hard:	24 hours
Theoretical Coverage of 1 mil:	1,188 ft ² / U.S. gallon		
D.F.T. at 25 microns:	110,3 m ² / 3.78 litres	Pot Life:	1 hour
Recommended D.F.T. mils:	6,0 – 9.0	Reduction solvent:	UC – 500 Regular
Dry film thickness microns:	150 - 225	Dilution:	UC-502 slow
Viscosity:	90 - 85 ku	Catalyst:	10-15% by volume (if necessary)
* Specific gravity:	1.45 – 1.61 kg/lt	Ratio:	No induction
Flash Point:	-6°C (21.2°F)	Shelf life:	104C
V.O.C.:	250 grams/litre 2.11 lbs. / US gal.	Packaging:	3:1
	Full range of colors		

* Data may vary according to color

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APPLICATION GUIDE

SURFACE PREPARATION:

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

For direct application on steel: stripped to abrasion according to standard SSPC-SP-6.

The profile of sanding should be between 37.50 and 62.50 microns (1½ and 2½ mils).

After surface preparation, vacuum or remove dust and ensure the surface remains clean before painting.

MIXING AND THINNING:

The entire contents of each container must be mixed well before application. Thinning is not required; however, for brush and roller application, up to 10 % thinner can be added. Mix the two components very well until paint becomes homogenous.

Reduction solvent: UC – 500 thinner or UC – 502

Catalyst: 104C

Dilution: 10 % by volume if necessary

Mixing ratio: 3:1

Paint temperature must be always be above the dew point before mixing or application.

APPLICATION PROCESS						
RECOATING TIME						
Substrate temperature	Catalyst	Dust free	Hard	Minimum	Maximum	Normal
23°C (73°F)	104C	1 hour	24 hours	2 - 3 hours	2 months	6 hours

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

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:	0.015 – 0.019
Fluid Pressure:	15 – 20 lbs.	Filter Size:	50 Mesh (300 um)
Hose:	½ inch, 50 ft. length maximum		

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." © Polyval Coatings Inc. Polyur and Polyval are registered trademarks of Polyval Coatings Inc. All Rights Reserved.

Keep in cool and dry area. See the material safety data sheet and product label for complete safety and precaution requirements.

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