

100 SERIES

EPOXY MASTIC

DESCRIPTION

Polyur 100 Series is a two-component high build surface tolerant epoxy. It can be used as a high performance primer for the following applications: properly prepared steel, intermediate coat for field or for shop applications. It can also be used for roughened galvanized or stainless steel surface.

FEATURES

- No induction time
- High film build 10 15 mils D.F.T (250 375 microns)
- Excellent adhesion to blasted steel or concrete
- Excellent adhesion to tightly adhered rust
- Excellent corrosion resistance

- Excellent chemical resistance. For long term color and gloss retention use aliphatic polyurethane topcoat.
- Fresh and salt water resistant
- Cold weather cure additive for temperatures down to -5°c (23°F)

- Piping and tanks
- Pulp and paper mills
- Structure steel

- Chemical plants and refineries
- Water and waste water treatment facilities
- Mining and fertilizer plants

TECHNICAL DATA

Colors available: 101 Red 104 Aluminum **Drying Times:**

109 black 102 Grev

103 Cream

15 - 40°

Temperature Resistance

121°C (250°F) **Continuous Dry:**

78 % +/- 2 % * Solids by volume: * Solids by Weight: 88 % +/- 2 %

Theoretical Coverage of 1 mil: 1251 ft² / U.S gallon

> 116 m² / 3.78 liters D.F.T. at 25 microns:

Recommended D.F.T. mils: 10 - 15Dry film thickness micron: 250 - 375

80 - 100 ku Viscosity: * Specific gravity: 1.70 - 1.90 kg/lt Flash Point: 16°C (60.8°F)

V.O.C.: 200 grams/litre 1.67 lbs / US gal.

Immerse: 7 days **Dust Free:** 4 – 6 hours To recoat: 4 hours Hard: 12 - 16 hours Induction time: No induction

Reduction solvent: 6211

Dilution: 10 % by volume (if necessary)

918615 Catalyst:

Ratio: 4:1

Pot Life: 4 hours after mixing at 25°C (77°F) Higher temperature will shorten pot life.

24 months @ 25°C (77°F) unopened

Shelf life:

Packaging: 3.02 litres (3 U.S quarts)

15.14 litres (4 U.S gallon)

* Data may vary according to colors

Revised 3/11/2013





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APPLICATION GUIDE

SURFACE PREPARATION: Remove all grease, oil, salt and dirt in accordance with SSPC - SP - 1 "solvent cleaning" with Polyur 101628 (water-based) or Polyur 101601(solvent based) or approved equivalency. Remove any loose paint. **For new and existing steel surfaces:** direct to metal coatings achieve maximum performance over near white blasted surfaces in accordance with SSPC - SP - 10. The minimum surface preparation for non - immersion service is SSPC - SP - 6 and for immersion service the minimum standard is SSPC - SP - 10. If the surface remains very rusty use one component moisture cure polyurethane primer sealer. **For galvanized, stainless steel or aluminum:** Abrade the surface equal to a 120 grit sand paper. Clean the surface with Polyur 101628 or 101601 before the application.

MIXING AND THINNING: First, power mix the base portion until it becomes homogenous. Secondly, add the hardener slowly with continued agitation until the two components are homogenously mixed together. After this process, the system is ready for immediate use.

Reduction solvent:6211Use with catalyst:918615Dilution:10 % by volume (if necessary)Mixing ratio:4:1

APPLICATION PROCESS							
RECOATING TIME							
Substrate temperature	Dust free dry	Hard	Minimum	Maximum	Normal		
10°C - 20°C (50°F - 68°F)	8 – 12 hours	24 – 32 hours	8 hours	2 months*	8 hours		
20°C - 35°C (68°F - 95°F)	4 – 6 hours	12 – 16 hours	4 hours	2 months*	4 hours		

Dirt, contaminants or chalking may occur within this time period. Before top coating remove oil, grease, dirt contaminants or chalking per "SSPC – SP - 1 solvent cleaning." Consult SSPC (Publication) Good Practice. Ventilation, solvent evaporation, humidity, film thickness, thinning and other conditions can influence the rate of drying time.

Brush and roller: For small surfaces only. Use clean synthetic roller ¼ to ½ inch nap.

CONVENTIONAL SPRAY		AIRLESS SPRAY	
Manual Spray gun:	DeVilbiss JGA-510, MBC-510 or equivalent	Pump Ratio:	30:1
Fluid Nozzle:	E Fluid Tip	Pressure:	2800 Psi minimum
Air Cap:	704 or 765	Hose:	% inch, 50 ft length maximum
Atomizing Air:	45 – 75 lbs	Tip Size:	0.019 - 0.021
Fluid Pressure:	15 – 20 lbs	Filter Size:	50 Mesh (300 um)
Hose:	½ inch, 50 ft length maximum		

PRODUCT LIMITATIONS

• Chalking occurs under ultraviolet conditions

• Concrete should be hardened for 28 days before application

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. Poly-Rock 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.

