

PRODUCT DESCRIPTION

MONO ZINC ME III is a Zinc-pigmented, one-component, moisture-cure polyurethane primer. For use as high-performance primer for hot-rolled or galvanized metal, as a fast-dry shop primer, or, in the field, as a primer for Xymax® intermediate or topcoats.

PRODUCT FEATURES

- 83% minimum weight of zinc in dry film
- Meets SSPC Paint 40
- For protection of steel or galvanized metal
- Weldable primer
- Can be applied in damp, cold, humid, or foggy conditions
- Can be applied at a minimum of -7°C (20°F) and humidity up to 99%, no dew point temperature differential restrictions
- For use as field touch-up over inorganic zinc
- Cures in less time than two-component conventional primers and epoxies
- No pot agitation required
- Smooth, dense finish; no bubbling when topcoats are applied
- pH range 4 to 11

TYPICAL USES

- Structural Steel
- Pipes and Bridges
- Chemical Processing Facilities
- Equipment in mining and offshore environments
- Advanced Corrosion protection for installations in high-salinity coastal areas.
- Tanks Exterior and Interior
- Water and Wastewater Treatment Facilities
- Pulp and Paper Mills and Hydropower Facilities
- Advanced Corrosion protection for installations exposed to moisture and high humidity
- Rated for applications in C5 and CX environments

TECHNICAL DATA

Colors Available:	Red or Gray tint
Gloss:	Flat
*Solids by volume:	62% +/- 2%
*Solids by Weight:	89% +/- 2%
Theoretical Coverage @ 1 mil:	994 ft ² / US gallon
D.F.T. at 25 microns:	92m ² / 3.78 liters
Recommended D.F.T.	3-4 mils (75-100 microns)
Viscosity:	90 – 110 ku
*Specific gravity	2.76 – 3.12 kg./lt.
Flash Point:	42°C (108°F)
V.O.C.:	340 grams/liter 2.80 lbs./US gal.

* Data may vary according to colors

Drying times: (depend on humidity)	
Dust free:	2 hours
To recoat:	4 - 6 hours
Hard:	24 hours
Reduction solvent:	X-34
Dilution:	10% by volume if necessary
Shelf life:	12 months @ 25° C unopened
Pot life:	Newly opened cans: 16 hours Working pot for Spray application: 6 - 8 hours Brush or roll application: 4 - 6 hours
Packaging:	3.78 liters (1 US gallon) 11.36 liters (3 US gallons)

Keep in cool and dry area

APPLICATION GUIDE

SURFACE PREPARATION

Remove all grease, oil, soils, contaminants in accordance with SSPC-SP-1 "solvent cleaning".

Round off rough welds and sharp edges, and remove weld spatter.

Abrasive blast to a minimum of commercial blast in accordance with SSPC-SP-6 or Swedish Standard Sa2. The blast profile should be between 1½ and 2½ mils (37.5 and 62.5 microns).

After blasting, vacuum or remove all abrasive dust and ensure the surface remains clean before painting.

For splash zone or severe conditions use SSPC -SP-10.

MIXING AND THINNING

MonoZinc ME III is supplied in either 1 gallon or 3 gallons containers. The entire contents of the containers must be mixed well before application. Thinning is not required; however, at lower temperatures, up to 10% of X-34 thinner can be added, depending on local VOC and air quality regulations. Mix gently.

Do not "box" or create vortex.

Reduction Solvent*: X-34 thinner

Clean-Up Solvent: X-50

Air spray: 10% reduction if necessary

Airless spray: If required

Brush (Natural or synthetic short hair, stiff bristle) and roller: No reduction necessary

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

*Contact a Polyval representative when solvent reduction may be needed.

DRYING TIMES			RECOATING TIME		
Substrate temperature	Dust free	Hard	Minimum	Maximum	Normal
< -7°C (20°F)	Not recommended to paint below this temperature.				
-7°C – 10°C (20°F - 50°F)	6 – 18 hours	72 – 96 hours	18 hours	2 months	72 hours
10°C – 38°C (50°F – 100°F)	2 hours	24 hours	4 hours	2 months	24 hours

CONVENTIONAL SPRAY		AIRLESS SPRAY	
Manual Spray gun:	DeVilbiss JGA-510, MBC-510 or equivalent	Pump Ratio:	30:1
Fluid Nozzle:	E Fluid Tip	Pressure:	3000 psi
Air Cap:	704 or 765	Hose:	¾ inch, 50 ft. length maximum
Atomizing Air:	45 – 75 lbs.	Tip Size:	0.017 – 0.021
Fluid Pressure:	15 – 20 lbs.	Filter Size:	50 Mesh (300 um)
Hose:	½ inch, 50 ft. length maximum		

SPECIAL INSTRUCTIONS & PRODUCT LIMITATIONS

- Avoid application over visible droplets or puddles of water or ice formations.
- Stated cure times are at 40% minimum relative humidity and temperatures of 10°C (50°F) to 38°C (100°F). Allow more time at humidities below 40% and temperatures below 10°C (50°F).
- Not recommended for strong acid, alkali, or severely corrosive environments without appropriate topcoats.
- For rapid recoat; refer to Pur-Acc accelerator data sheet. Recoat times for intercoat adhesion will be shortened. Consult Polyval before use.
- Maximum wet film thickness should not exceed 7 mils (175 microns).
- Avoid storing in temperature above 29°C (85°F) or direct sunlight.

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."

Keep in cool and dry area