

## PRODUCT DESCRIPTION

**MONO GUARD** is a highly refined coal tar/micaceous iron oxide (MIO), one-component, moisture-cure polyurethane for use on primed steel, bare steel, or concrete in areas exposed to partial or constant immersion in salt or fresh water at ambient temperatures. MONO GUARD has good solvent, abrasion, and chemical resistance.

## PRODUCT FEATURES

- Excellent adhesion directly to SSPC-SP-10 or SP-6 blasted steel, Mono Zinc primers or concrete
- Excellent mechanical damage resistance
- Coal tar is refined; has less odor than coal tar epoxy
- Can be applied by brush, roller, or spray
- pH range 4 to 11
- Can be applied in damp, cold, humid, or foggy conditions and at a minimum of -7°C (20°F) and humidity up to 99%; no dew point temperature differential restrictions

## TYPICAL USES

- Water and Wastewater Treatment Facilities
- Barges
- Structural Steel
- Chemical Processing Facilities
- Pulp and Paper Mills
- Tanks

## TECHNICAL DATA

<b>Colors Available:</b>	Black	<b>Drying times: (depend on humidity)</b>	
<b>Gloss:</b>	Low gloss	<b>Dust free:</b>	4 hours
<b>*Solids by volume:</b>	64% +/- 2%	<b>To recoat:</b>	4 - 6 hours
<b>*Solids by Weight:</b>	80% +/- 2%	<b>Hard:</b>	24 hours
<b>Theoretical Coverage @ 1 mil:</b>	1,026 ft <sup>2</sup> / US gallon	<b>Reduction solvent:</b>	X-34
<b>D.F.T. at 25 microns:</b>	95m <sup>2</sup> / 3.78 liters	<b>Dilution:</b>	5% by volume if necessary
<b>Recommended D.F.T.</b>	5.0-6.0 mils (125-150 microns)	<b>Shelf life:</b>	12 months @ 25° C unopened
<b>Viscosity:</b>	80-110 Ku	<b>Pot life:</b>	Newly opened cans: 16 hours Working pot for
<b>*Specific gravity</b>	1.44- 1.68 kg./lt.		Spray application: 6 - 8 hours Brush or roll application: 4 - 6 hours
<b>Flash Point:</b>	Above 24°C (75.2°F)	<b>Packaging:</b>	3.78 liters (1 US gallon) 18.93 liters (5 US gallons)
<b>V.O.C.:</b>	340 grams/liter 2.80 lbs. / US gal.		
<b>* Data may vary according to colors</b>			

Keep in cool and dry area

**APPLICATION GUIDE**
**SURFACE PREPARATION**

For optimal performance in immersion service, use over Xymax MonoZinc ME III with a SSPC-SP-10 near white blast; SSPC-SP-6 for non-immersion applications applied over MonoZinc ME III.

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). For application over coal tar epoxied, use SSPC-SP-7 sweep blast.

For concrete, remove dirt, oils, chalk, or other contaminants in accordance with SSPC-SP-1 "solvent cleaning" followed by SSPC-SP-7 sweep blast or high-pressure water blast. Can also be applied directly to SSPC-SP-10 or SP-6 blasted steel.

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

Further remove any remaining soluble salts on the receiving surface prior to painting. If the primer remains unpainted for a period of time, any salt contamination must be removed using salt solubilizing agents in water wash.

**MIXING AND THINNING**

Mono Guard is supplied in either 1 gallon or 5 gallons containers. The entire contents of the containers must be mixed well before application. Thinning is not required; however, at lower temperatures, up to 5% 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: 5% 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 – 5°C (20°F - 41°F)	6 – 18 hours	72 – 96 hours	12-18 hours	2 weeks	72 hours
10°C – 38°C (50°F – 100°F)	4 - 6 hours	24 hours	4 hours	2 weeks	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° (50°F).
- 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 10 mils (250 microns).
- Avoid storing in temperature above 29°C (85°F) or direct sunlight.
- For best immersion service performance, use over Mono Zinc ME III.
- Under Mono Guard, any Mono Zinc primers must cure for 8 hours to avoid bubbling or blistering. If faster application of Mono Guard over Mono Zinc primers is required, contact Polyval for accelerating the cure of Mono Zinc with Pur-Acc.
- When applying directly to unpainted concrete, backroll Mono Guard to achieve adequate penetration and filling of cracks and pores. Additional thinning up to 10% x-34 may be used.

**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."*

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