

PRODUCT DESCRIPTION

XYGUARD is a high-build (4 to 6 mils DFT) single component moisture-cure polyurethane serving as an all-purpose primer, intermediate coat or interior topcoat. XYGUARD is surface-tolerant and provides excellent corrosion, abrasion and water resistance.

PRODUCT FEATURES

- Excellent adhesion to steel, aluminum, galvanized metal, weathering steel, concrete, fiberglass or old coatings
- Excellent adhesion to marginally prepared surfaces
- Excellent over aged alkyds or epoxies
- Excellent abrasion resistance and chemical resistance for splash and spill areas
- Quick recoat times in cold, damp, humid, and foggy conditions
- Suitable for early immersion or splash areas
- Cannot amine blush; does not brittle with age
- Can be applied at a minimum of -7°C (20°F) and humidity up to 99%; no dew point temperature differential restrictions
- Achieves 6 mils DFT per coat
- Apply by brush, roller, or spray
- Good topcoat for interior use
- Can be applied over SSPC-SP-2, SP-3, SP-11, SP-6, or SP-10 steel surface preparation

TYPICAL USES

- Structural Steel and Floors
- Material Handling Equipment
- Equipment in mining and offshore environments
- Advanced Corrosion protection for installations in high-salinity coastal areas.
- Water Treatment Facilities
- Tanks Exteriors
- Chemical Processing Facilities
- Advanced Corrosion protection for installations exposed to moisture, and high humidity
- Rated for applications in C5 and CX environments

TECHNICAL DATA

Colors Available:	Available in many colors	Drying times: (depend on humidity)	
Gloss:	Low gloss	Dust free:	2 hours
*Solids by volume:	62% +/- 2%	To recoat:	4 - 6 hours
*Solids by Weight:	77% +/- 2%	Hard:	24 hours
Theoretical Coverage @ 1 mil:	994 ft² / US gallon	Reduction solvent:	X-34
D.F.T. at 25 microns:	92m² / 3.78 liters	Dilution:	10% by volume if necessary
Recommended D.F.T.	4.0-6.0 mils (100-150 microns)	Shelf life:	12 months @ 25° C unopened
Viscosity:	80-100 Ku	Pot life:	Newly opened cans: 16 hours
*Specific gravity	1.32- 1.56 kg./lt.		Working pot for
Flash Point:	Above 42°C (108°F)		Spray application: 6 - 8 hours
V.O.C.:	340 grams/liter 2.80 lbs. / US gal.		Brush or roll application: 4 - 6 hours
		Packaging:	3.78 liters (1 US gallon)
			18.93 liters (5 US gallons)

* Data may vary according to colors

Keep in cool and dry area
*revised on January 29,
2015

APPLICATION GUIDE

SURFACE PREPARATION

Remove all grease, oil, soils, contaminants in accordance with SSPC-SP-1 "solvent cleaning". High pressure water wash or steam clean to remove any remaining salts. Before painting, always vacuum or remove any dust to ensure the surface remain clean. Round off rough welds and sharp edges, and remove weld spatter.

Evaluate representative test patches to ensure adequate adhesion to old coatings. If these coatings are hard and shiny, abrade the surface to ensure adhesion.

For full overcoating of aged coatings, use SSPC-SP-1. As a spot primer, use SSPC-SP-2 hand-tool cleaning or SSPC-SP3 or SSPC-SP-11 power-tool cleaning.

For full primer over steel, 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 use over concrete, stone particles or other debris must be removed. Wax substrates or residue or very contaminated substrates must be cleaned with a sand-blasting machine, a grinding machine or a high pressure washing machine.

MIXING AND THINNING

Xyguard 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 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: Not recommended

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°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 10 mils (175 microns).
- Avoid storing in temperature above 29°C (85°F) or direct sunlight.
- Light colors will yellow indoors. Chalking and down-glossing will result from exterior use. Equal in weathering to epoxies.

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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