

PRODUCT DESCRIPTION

Max Coat HB is a semi-gloss single component aliphatic moisture-cure polyurethane topcoat. Outstanding exterior weathering performance achieving the technology's highest level of color and gloss retention, abrasion resistance and physical property toughness.

PRODUCT FEATURES

- Can be applied in damp cold, humid, or foggy conditions
- Can be applied by brush, roller or spray
- Excellent gloss and color retention
- Excellent abrasion resistance
- Excellent chalk resistance
- Non-yellowing
- Can be applied at a minimum of -7°C (20°F) and humidity up to 99%; no dew point temperature differential restrictions
- Low dirt pick-up or staining
- pH range 2 to 12
- Can achieve high-film-build 4 mils DFT by spray application

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.
- Tanks Exteriors
- Chemical Processing Facilities
- Advanced Corrosion protection for installations exposed to moisture, high humidity, and intense UV
- Rated for applications in C5 and CX environments

TECHNICAL DATA

Colors Available:	Available in many colors
Gloss:	Semi-gloss
*Solids by volume:	62% +/- 2%
*Solids by Weight:	77% +/- 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.	2.0-4.0 mils (50-100 microns)
Viscosity:	80-100 Ku
*Specific gravity	1.28– 1.53 kg./lt.
Flash Point:	Above 24°C (75.2°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:	3 hours
To recoat:	4 - 6 hours
Hard:	24 hours
Reduction solvent:	X-60
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) 18.93 liters (5 US gallons)

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

APPLICATION GUIDE

SURFACE PREPARATION

Before application, the receiving coat surface must be free from dirt, soluble salts, dust, oil, grease, chalking or contaminants. Normal preparation includes vacuum, blow-off, SSPC-SP-1 "solvent cleaning".

MIXING AND THINNING

Max Coat HB 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-60 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% by volume 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	72 hours	72 hours
10°C – 38°C (50°F – 100°F)	3 - 4 hours	24 hours	4 hours	48 hours	24 hours

Scuff sanding is required before recoating as per maximum recoating time specifications.

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:	0.013 – 0.019
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.
- Recoating time is very critical to achieve proper adhesion.
- Do not use over unprimed metal surfaces.
- Do not use on exterior exposures where moisture condensation or water puddle persist. Substitute Maxcoat Clearcoat where these conditions may exist.
- Not recommended for immersion service.

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

***revised on January 29,
2015**