

MPU4400

Polyurethane Topcoat

MAHLA MPU4400 is a two-component, quick drying, polyurethane resin passed finish with good resistance to splash and spillage of acids, alkalis, solvents, salts and water. Also, it has outstanding weather resistance and color retention.

Recommended use

As a finishing coat for use on heavy steel structures or concrete of chemical processing, petrochemical and similar industries as marine tank, waste treatment and equipment which subject to weathering.

Physical Data

Finish	Semi-Gloss	Full cure	7 Days
Color	*White	Components	2
Substrate	Primed steel	Solid Weight	77±2%
Mixing Ratio (by W)		Volume Solids	60±2%
Base.....	7 part	DFT	50µ/coat
Cure	1 part	WFT	115µ
Drying times (at25°c)		TSR	9m ² /lit/50µ
Surface dry	Max.2 hours	Pot life (at 25°.....	8 hours
Thorough dry	24 hours	Specific Gravity	1.4±0.05 kg/lit
		Viscosity (at 25°c)	40-60 sec

*Other colors are available too.

APPLICATION DETAILS

Surface Preparation: Remove any oil and grease and other contaminants from the surface to be coated.

Application Condition: Apply only when the surface temperature is more than 3°c (5°F) above - the dew point .
referred surface temperature and relative humidity are -5°c ~ 40°c / 29°F ~ 104°F and 35~85%.

Environmental Conditions

Air temp 10-50°C
Surface temp..... 10-50°C
Surface temperature must be at least 3°C
above dew point.

Thinning Thinner MS604
- Do not dilute components separately, only the mixture.

Method of Application Spray (air or airless) application.
For airless spray application:
Nozzle orifice: 0.015" ~ 0.021"
Output pressure: 2200psi / 150 atm.
Fan: 65"
Thinning: Max, 25% by volume.
(Airless spray data are indicative and subject to adjustment.)

Film Thickness Recommended per coat 40~50 microns dry.

Recoating Interval At 20°C / 68°F , Minimum : 12 hours
Maximum : Free

Subsequet Coat None.

Shelf Life Maximum: 12 months.

Stroage conditions Temperature : 4°C ~ 43°C / 40°F ~ 110°F
Relative humidity : 0 ~ 100%

Heat resistance Continuous : 93°C / 200°F
Non –continuous : 121°C / 250°F

Remarks Protect skin and eyes, and avoid prolonged breathing of solvent vapors.

Use with adequate ventilation.

Respiratory protection is recommended when applying this material in
connfined spaces or stagnant air.

Application procedure

1. Flush equipment with recommended cleaner.
2. Stir base to an even consistency with a power mixer.
3. Add cure to base & continue Stirring up to uniformity. Induction time before use is 10 min.
Note: since the pot life is limited & shortened by high temperatures, do not mix more material than will be used.
4. For conventional spray thin only as needed for workability.
5. Stir during application to maintain uniformity of material.
6. Apply 115 μ of the wet film thickness to reach 50 μ dry film thickness.