

MEP 578

Zinc Rich Epoxy Primer

Mahla Zinc Rich Epoxy primer **MEP578** is a two-component, polyamide cured epoxy primer with high content of metallic zinc. It provides long time protection of steel in severely corrosive environment. And has outstanding resistance to mechanical tear and wear.

Recommended Use: As a long-life primer for use on steel subjected to corrosive environment and hard mechanical wear. As a shop primer for protection from blast cleaning to final finish.

Physical Data

Shelf life	6 months	Specific Gravity	2.6±0.1 kg/lit
Color	Gray	Viscosity (at 25°c)...	70-80 KU (mixed product)
Substrate	Clean Blasted steel	Thinner	MS605
Components	2	Drying times (at25°c)	
Solid Weight	88±2%	Surface dry	Max.30 Mins
Volume Solids.....	60±2%	Dry to handle	Min. 12 hours
WFT.....	85μ	Dry to top coat	Min. 16 hours
TSR	12m ² /lit/50μ	Full cure	7 Days
Zinc in DFT	About 80%	Mixing Ratio (by w)	
Pot life (at 25°c)	8 hours	Base	10parts
DFT	Min. 50μ	Cure	1 part

Note: This product also can be supplied in 3 components.

APPLICATION DETAILS

Surface Preparation Blast cleaning to Sa^{2½} "Near white metal" for immersion and non-immersion service.
*power tool cleaning to St 3 is also acceptable for touch-up areas, moderate service, etc.

Application conditions	<p>The surface must be completely clean and dry and its temperatures must be above the dew point to avoid condensation.</p> <p>Air temp 10-50°c</p> <p>Surface temp 10-60°c ,2.7°c (5°F)</p>
Mixing	<p>PAT(Base):PTB(Curing Agent)= 20:1 (by weight). Mix thoroughly together half an hour prior to application in the proportions as delivered.</p>
Application Method	<p>Brush or spray (air or airless) application. The paint must be stirred constantly during application.</p> <p>For airless spaying: Nozzle orifice : 0.017" ~ 0.021" Output pressure : 2500 psi / 170 bars</p> <p>For conventional spraying : Nozzle orifice : 0.8-1.2mm Output pressure :4-6bars Fan : 65" Thinning : Max.25% (up to 50% when shop priming) (Airless spray data are indicative and subject to adjustment).</p>
Recoating Interval	<p>Although the primer is not fully cured, the steel plants may be stacked and handled without damage to the coat.</p> <p>* As shop primer : No maximum for adhesion, but should be - recoated before deterioration.</p> <p>* As permanent primer : According to specification.</p>
Subsequent Coat	<p>According to specification.</p>
Heat Resistance	<p>Continuous : 82°C/180°F Non-Continuous : 110°C / 230°F</p>

Chemical Resistance

	Acids	Alkalies	Solvents	Salts	Water
Splash & Spillage	Fair	Fair	Good	Excellent	Excellent
Fumes	Good	Good	Excellent	Excellent	Excellent

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 confined 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 85 μ of the wet film thickness to reach 50 μ dry film thickness.

Note: If used in confined areas, use adequate circulated fresh air continuously during application & drying. Use fresh air mask to prevent hazards of fire explosions & health risks.

Temperature & humidity of ventilation air must be in a way that moisture condensation can not be formed on the surface.