

CODE :EP-250

PRODUCT NAME:

High Solid Epoxy coatings

DESCRIPTION :

EP-250 is a two component high solid surface tolerant maintenance is which pigmented with chemical resistance pigments, can be applied to mechanically cleaned surfaces , those areas where blasting is impractical or impossible.

Uses include steel structures in industrial facilities, bridges, tanks, marine weathering, oil tanks, piping, roofs, water tower or concrete and other exposures subject to high humidity and moisture.

EP-250 has good resistance to splash or spillage and fumes of acids, alkalis, solvent and fresh and salt water.

EP-250 can be top coated with a wide range of topcoats for a finish color scheme or for added chemical resistance.

TECHNICAL DATA:

Binder	Epoxy resin, Hardener : Amino amide
Pigment	Chemical resistance pigments
Finish	Semi gloss
Shade	Grey ,white , beige ,red brown
Specific gravity after mixing	1.45 ± 0.1 Kg/Lit
Volume solid	80 ± 3%
Flash point(mixed)	33 °C
Typical dry film thickness	150-300 Microns
Number of coat	One or two
Mixing ratio by weight	Base : 100 parts Hardener : 20parts
Substrate	Primed steel , concrete
Application method	Airless spray or roller
Thinner/ Cleaner	T-200
Weight of added thinner	5-25 %
Theoretical spreading rate at 150 microns	5.3 M ² /Lit
Temperature resistance	Continues 100°c Noncontinuos 110°c
Packing	Base : 25kg Hardener : 5 kg
Shelf life	12Months

Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	12 hours	24 hours	24 hours		12 days
25°C	5 hours	10 hours	10 hours	----	7 Days
40°C	100 minutes	4 hours	4 hours	----	5 Days

Note: Drying times are dependent on applied film thickness; all data in this catalogue are reported at recommended DFT.

Pot life

Temp. of paint	15°C	25°C	40°C
Pot life	3 hours	120 minutes	60 minutes

SURFACE PREPARATION

All Surfaces to be coated should be clean, dry and free from contamination. Prior to Paint application all surfaces should be assessed and treated in accordance with ISO 8504:1992.

Primed Surfaces

EP-250-HS should always be applied over a recommended anti-corrosive coating scheme.

The primer surface should be dry and free from all contamination, and EP-250 must be applied within the overcoating intervals specified.

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. 2½ (ISO 8501 -1:1988) or SSPC-SP10, Abrasive, or SSPC-SP11, power tool cleaning) and patch primed prior to the application of EP-250.

Concrete, precast blockwork etc

EP-250 is suitable for application to concrete. For the first coat it is recommended that EP-250 is thinned 10-12% by T-200 in order to provide good penetration into the concrete substrate and act as primer/ sealer coat.

Concrete should be cured for a minimum of 28 days prior to coating. The moisture content of the concrete should be below 6%. All surfaces should be clean, dry and free from curing compounds, release agents, trowel ling compounds, surface hardener, efflorescence, grease, oil, dirt, old coatings and loose or disintegrating concrete. All poured and precast concrete must also be sweep blasted (preferred) or acid etched to remove laitance.

Surface preparation shall not take place in the following conditions:

- A-At temperature below 5 °C
- B-When the relative humidity greater than 85%
- C-When the metal surface temperature is less than 3 °C above the dew point
- D-Outside day light hours on exterior locations

Application Method

Material is supplied in two containers as a unit. Always mix a complete unit in the proportion supplied. Once the unit has been mixed it must be used within the working Pot life specified.

1-Agitate part A with a power agitator.

2-Combined entire contents of curing agent (part B) With Base (Part A) and mix thoroughly with power agitator.

(Stir during application to maintain uniformity of material.)

Application Equipments

Air less Spray	Tip range 0.53-0.66 mm Total output pressure at spray tip not less than 176 Bar (2503 psi)
Air Spray	NOT RECOMMENDED
Brush	NOT RECOMMENDED
Roller	Typically 100 mic can be achieved.

Flush Equipment with recommended Cleaner before and after use.

ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above the dew point.
- Never apply coatings under reverse environmental condition.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.
- For satisfactory cure, air and surface temperature must be above 10 °.
- Paint shall not be applied when wind speed is in excess of 7 m/s.

Air temperature	10 to 40 C
Surface temperature	10 to 50 °C
Material temperature	10 to 30 °C
Relative humidity	Max 80 %

HEALTH AND SAFETY:

This product is Flammable. Keep away from heat and open flame .Keep container closed .Use with adequate ventilation. Avoid prolonged and repeated contact with skin. If used in confined areas, observe the following precautions to prevent hazards of fire or explosion or damage to the health:

- 1-Circulate adequate fresh air continuously during application and drying.
- 2-Use fresh air masks and explosion proof equipment.
- 3- Prohibit all flames, sparks, welding and smoking.