

CODE: EP-262-1

PRODUCT NAME:

Multi – Purpose Self Primer Epoxy Coating

DESCRIPTION:

EP-262-1 is a self - priming, economical, long - term protecting coating with excellent durability in both marine and industrial environments.

It is outstanding chemical and weather resistant. It is compatible over inorganic zinc primers and accepts siloxane or polyurethane topcoats where improved gloss and colour retention are required.

It adheres to a variety of substrates such as steel, aluminum, stainless steel, concrete, and previously coated surfaces.

EP-262-1 is formulated for use on decks, hulls, superstructures and ballast tanks of ships and also tank exteriors , structural steel and pipes in chemical plants , refineries , offshore platforms and other structures exposed to severe weathering , water , salt spray , immersion or aggressive chemical environments.

EP-262-1 is an alternative for traditional coal tar epoxies and is suitable for immersion in both salt and fresh water.

Antifouling must be applied to EP-262-1 while the film is still soft the fingernail.

TECHNICAL DATA:

Binder	Epoxy resin
Pigment	Inhibitive pigments (Zinc Phosphate & red oxide)
Finish	Semi flat
Shade	Grey ,red
Specific gravity after mixing	1.5 ± 0.1 Kg/Lit
Volume solid	90 ± 2 %
Flash point	27 °C
Typical dry film thickness	300-400Microns per one coat
Number of coat	two or three
Mixing ratio by weight	Base : 100 parts Hardener : 16 parts
Substrate	Mechanically cleaned steel ,Galvanized and Aluminum surfaces
Application Method	Airless or Air spray,Brush,Roller
Thinner/ Cleaner	T-200
Weight of added thinner	10 %
Theoretical spreading rate - one coat (at 300 microns)	3 M ² /Lit
Packing	Base : 25 kg Hardener : 5 kg
Shelf life	12 Months

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Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	6 Hours	28hours	36hours	--	13 days
25°C	3 hours	20 hours	24hours	--	7days
40°C	90 minutes	15 hours	16hours	--	4 days

Pot life

Temp	15°C	25°C	40°C
Pot life	8 hours	6 hours	4 hours

SURFACE PREPARATION

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

Fresh water wash or fresh water wash with high pressure, as appropriate, and remove all oil or grease, soluble contaminants, and other detrimental foreign matter in accordance with SSPC-SP1 solvent cleaning.

Where necessary, remove weld spatter, and where required smooth weld seams and sharp edges. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning.

Abrasive Blast cleaning

Abrasive blast cleans to Sa 2½(ISO 8501-1:1988) or SSPC-SP10. If oxidation has occurred between blasting and application of EP-262-1, the surface should be reblasted to the specified visual standard. For thin layer systems a sharp, angular surface profile of 50-75 microns is recommended. For heavy duty systems angular surface profile of 40-70 microns is recommended.

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 0.017-0.021 inch pressure at spray tip not less than 141 Bar (2000 psi)	Total output
Air Spray	Nozzle orifice 1.8-2mm Nozzle pressure: 2-4 Bar (29-58 psi)	
Brush	Typically 70 mic can be achieved.	
Roller	Typically 70 mic can be achieved.	

**Flush Equipment with recommended Cleaner before and after use
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ENVIRONMENTAL CONDITIONS:

- To prevent moisture condensation during application, surface temperature must be at least 3 °C above 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 °C.
- 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.

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