

**CODE: EP-258**

**PRODUCT NAME:**

**Solvent -Base Epoxy Varnish**

**DESCRIPTION:**

EP-258 is a two component epoxy varnish with excellent chemical and mechanical properties which has an excellent adhesion on all kinds of substrates.

EP-258 is a gloss clear top coat for general purpose application where shiny, attractive, resistant lacquer is required in both marine and Industrial environments such as ships, tanks and railroad tanks. The abrasion resistance of EP-258 allows it to be used as a lining for slurries, or as a coating for concrete in high wear services as well as dry abrasive blasted steel.

**TECHNICAL DATA:**

Binder	Epoxy resin
Pigment	No pigment
Gardner	2 Max
Appearance	Clear No contamination
Epoxy Value	0.1492-0.1666Eq/100gms
Specific gravity after mixing	1.08 Kg/Lit
Volume solids	60%
Flash point	100 °C
Typical dry film thickness	100 Microns
Number of coat	One or two
Mixing ratio by weight	Base : 100 parts Hardener : 69 parts
Thinner	do not thinner ( Cleaner: T-C-200 )
Application Method	Airless, Roller or Brush
Thinner And weight of added thinner	For Airless : 5-10% For Brush and Roller: Not Suitable
Theoretical spreading rate ( at 100 microns)	6 M <sup>2</sup> /Lit
Packing	Base : 20 kg Hardener : 13.8 kg
Shelf life	12 Months

EP-258 /1

## Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	9 hours	36 hours	36	--	14 days
25°C	7 hours	28 hours	24	--	7 days
40°C	4 hours	20 hours	15	--	4 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	6 Hr	4 Hr	2.5 Hr

## 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. Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

### Primed Surfaces

EP-258 should always be applied over a recommended anti-corrosive coating scheme.

The primer surface should be dry and free from all contamination, and EP-258 must be applied within the overcoating intervals specified.

Areas of breakdown, damage etc., should be prepared to the specified standard (e.g. Sa 2½ (ISO 8501 -1:1988) or SSPC-SP10, Abrasive, or SSPC-SP11, power tool cleaning) and patch primed prior to the application of EP-258.

### Concrete, precast block work etc

EP-258 is suitable for application to concrete. For the first coat it is recommended that

EP-258 is thinned 7-10 % by T-200 in order to provide good penetration into the concrete substrates.

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, trowelling compounds, surface hardener, efflorescence, greases, 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:

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

EP-258/2



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## 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.

## Application Equipments

Air less Spray	Tip range 0.017-0.021 inch Total output pressure at spray tip not less than 211 Bar (3000 psi)
Air Spray	NOT RECOMMENDED
Brush	Typically 50-60 mic can be achieved.
Roller	Typically 50-60 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 °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.

EP-258 /3