

CODE: EP-301-1

PRODUCT NAME:

Epoxy polyamide coatings

DESCRIPTION:

EP-301-1 is a two component polyamide cured solvent base epoxy for the coverage of the concrete substrates. It is recommended as a coating on concrete to prevent dust forming which provides an excellent surface.

EP-301-1 is a suitable coverage for chemical resistance for (wall, roof, flooring coating) and also is a suitable holding primer and topcoat for lining concrete surfaces.

EP-301-1 resists splash and spillage of a wide range of industrial chemicals and cleaning agents. It can easily clean from dirt and grease, resisting normal cleaning procedures.

TECHNICAL DATA:

Binder	Epoxy resin
Hardener	Polyamide resin
Finish	mat
Shade	White ,grey ,red
Substrate	Cleaned concrete
Volume solid	63 ± 3%
Dry film thickness	30-100 Microns per one coat
Flash point	60 °C
Specific gravity after mixing	1.3 ± 0.1 Kg/Lit
Mixing ratio by weight	Base : 75 parts Hardener :25 parts
Theoretical spreading rate (at 50 microns)	12.6 M ² /Lit
Thinner / Cleaner	T-200 / 5-30%
Packing	Base : 24 kg Hardener : 8 kg
Shelf life	12 Months

Under License C



Approved b



Drying Time

Touch dry	Hard dry	Over coating		Full cure
		Min	Max	
hours 2-3	6-12 hours	3-6 hours	10 days	7 days

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

Above Specification Is Based On Mixture Of The Two Components.

(23 ± 3 °C And , 30 ± 5 % RH.)

Pot life (ASTM D 1849)

Temp. of paint	15± 3°C	23± 3°C	40± 3°C
Pot life	9-12 hours	5-8 hours	2-3 hours

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.

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, 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 surface temperature is less than 3 °C above the dew point
- D) Outside day light hours on exterior locations

- Apply EP-301-1 as soon as possible after surface preparation.

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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

Brush	Typically 30-50 mic can be achieved.
Roller	Typically 50-100 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.
- Paint shall not be applied when wind speed is in excess of 7 m/s

Air temperature	15 to 40 °C
Surface temperature	15 to 40 °C
Material temperature	15 to 40 °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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