

CODE: EP-300

PRODUCT NAME:

Polyamide Cured Concrete Epoxy Sealer

DESCRIPTION:

EP-300 is a two component polyamide cured solvent base clear concrete epoxy sealer to improve adhesion of topcoat to the substrate. It is recommended as a sealer on concrete to prevent dust forming which provides an excellent surface under self leveling flooring topcoat.

Like all primers, EP-300 alone is not suitable for immersion in acid or alkaline solutions.

TECHNICAL DATA:

Binder	Epoxy resin
Pigment	No pigments
Finish	Gloss
Shade	Clear
Substrate	Cleaned concrete
Volume solid	35±3 %
Typical dry film thickness	50-100 Microns per one coat
Number of coat	One
Flash point	24 °C
Specific gravity after mixing	0.9 Kg/Lit
Induction Time At <20° C	15-20 minutes
Mixing ratio by weight	Base : 100 parts Hardener : 25 parts
Theoretical spreading rate ( at 100 microns)	3.5 M <sup>2</sup> /Lit
Thinner / Cleaner	Not Required
Packing	Base : 16 kg Hardener : 4 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	32 hours	28 hours	Not limited	13 days
25°C	4 ½ hours	26 hours	20 hours	Not limited	7 days
40°C	3 hours	20 hours	16 hours	Not limited	3 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	9 hours	8 hours	5 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-300 as soon as possible after surface preparation.



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## Application Method

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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 0.015-0.017 inch output pressure at spray tip not less than 141 bar (2000 psi)	Total
Air Spray	Nozzle orifice 1.8mm Nozzle pressure: 2-4 Bar (29-58 psi)	
Brush	Typically 40 mic can be achieved.	
Roller	Typically 40 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.

Air temperature	15 to 40 °C
Surface temperature	15 to 50 °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.