CODE: EP-364

PRODUCT NAME:

Chemical Resistant modified solvent-free

Epoxy coatings

DESCRIPTION:

EP-364 is a two component 100 percent solids content, modified solvent-free epoxy based topcoat.Its excellent acid resistance , abrasion and chemical resistance properties make it suitable for the protection of primed concrete floors in the food industry , industrial and commercial warehouses, power plants and other locations where a heavy duty acid resistant floor topcoat is required.EP-364 resists splash and spillage of a wide range of industrial chemicals and cleaning agents. EP-364 provides long term resistance to corrosion even under aggressive conditions. It is suitable for immersion in both salt and deionizer Water and also diluted oxo-acids at temperature up to 60 ºC.

TECHNICAL DATA:

Binder	Epoxy polyamine
Pigment	Chemical resistant pigment
Finish	Gloss-semi gloss
Shade	Ral colors
Specific gravity after mixing	1.4 ±0.05 Kg/Lit
Volume solid	95 %
Flash point	80 ºC
Typical dry film thickness	1- 3mm
Number of coat	One
Mixing ratio by weight	Base : 100 parts Hardener : 20-25 parts
Substrate	Primed concrete
Application method	Pour and Spread by Conventional saw tooth Trowel
Theoretical spreading rate (at 1000 mic)	0.95M²/Lit
Thinner & Cleaner	T-200 /T-C-200
Packing	Base : 30 kg or 200kg in drum Hardener : 6-7.5 kg or in drum
Shelf life	12 Months

Mechanical Properties (After Full Curing)

Compressive strength	Aprox. 12000 psi
Flexural strength	Approx.5400 psi
Tensile Elongation	5-10%
Tensile strength	Approx.8000 psi
Adhesion to concrete	355 psi (Concrete Fails)

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Drying Time

Temp	Touch dry	Hard dry	Overcoating Min	Overcoating Max	Full cure
15°C	9 hours	48 hours	32 hours	-	13 days
25°C	6 hours	36 hours	24 hours	-	7 days
40°C	4 hours	27 hours	18 hours	-	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	80 minutes	45minutes	20 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 ISO8504:1992.
Oil or grease should be removed in accordance with SSPC-SP1 solvent cleaning

Primed surfaces

EP-364 can be applied over approved primers. The primer surface should be dry and free from all contamination, and EP-364 must be applied within the overcoating intervals specified.

Concrete Surfaces

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

All Cracks in the concrete shall be filled by EP- 320 or other mastics, before applying topcoat.

Surface preparation shall not take place in following conditions: A-At temperature below 5 ºC. B-When the relative humidity greater than 50-60%.
C-When the surface temperature is less than 3 ºC above the dew point. D- Out side day light hours on exterior locations

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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.

Product is also available in pre-measured units, eliminating the need for field measuring of components. Mix thoroughly for at least three minutes, scraping the container bottom and side to assure complete mixing. There is no induction or waiting time required after mixing before application.

The exothermic nature of epoxy setting reactions may cause rapid temperature rise when the mixture is left massed in a bucket, resulting in high temperatures and loss of utility of the product .To maximize handling and working time, pour the mixture into shallow pans or dump and squeegee tile mixture out onto surface to be coated within a few minutes of mixing

Like all high performance coating, this product must be applied as recommended to obtain the maximum protection for which this coating is formulated.

- Pour EP-364 on the floor and spread using a flat trowel. After 10 minutes roll the surface with a pin roller to remove air bubbles.

- Apply a minimum of 1.5 mm EP-364 normally provides a smooth, high gloss finish after application.

- In hot climate, material temperature should be 20 to 25 ºC prior to mixing; otherwise pot life becomes very short.

-Do not thin for any reason

- Paint shall not be applied when wind speed is in excess of 7 m/s - Do not apply this coating when surface temperature is below 12ºC.

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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