

CODE: EP-340

PRODUCT NAME:

Flexible Epoxy Flooring

DESCRIPTION:

EP-340 is a two component, 100% solid epoxy used as a base in many epoxy flooring systems. It is used as an epoxy membrane or flexible epoxy mortar. Flexible epoxy resists cracking caused by horizontal substrate movement.

EP-340 offers stress-relieving for floor slabs that show movement or vibration. It is excellent for use in areas such as mechanical equipment rooms and activity centers.

TECHNICAL DATA:

Binder	Epoxy polyamine
Pigment	Chemical resistant pigment
Finish	Gloss-semi gloss
Shade	Cream, Grey, yellow, Green and Blue
Specific gravity after mixing	1.6 ±0.05 Kg/Lit
Volume solid	100 %
Flash point	80 °C
Typical dry film thickness	1mm- 5 cm
Number of coat	One
Mixing ratio by weight	Base : 100 parts Hardener : 50parts
Substrate	Primed concrete
Application method	Trowel
Theoretical spreading rate (at 3 mm)	0.3 M ² /Lit
Cleaner	T-C-200
Packing	Base : 30 kg or 200kg in drum Hardener : 15 kg or in drum
Shelf life	12 Months

Mechanical Properties (After Full Curing)

Tensile strength	Approx .1200 psi
Bond strength	250-300 Psi
Tensile Elongation	80-90 %
Adhesion to concrete	355 psi (Concrete Fails)

EP-340/1



Drying Time

Temp	Touch dry	Hard dry	Overcoating		Full cure
			Min	Max	
15°C	11 hours	48 hours	32 hours	-	13 days
25°C	8 hours	36 hours	24 hours	-	7 days
40°C	5 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	120 minutes	70minutes	40minutes

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

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 and dry.

Primed surfaces

EP-340 can be applied over approved primers. The primer surface should be dry and free from all contamination, and EP-340 must be applied within the overcoating intervals specified.

Surface preparation shall not take place in following conditions:

- A-At temperature below 5 °C.
- B-When the relative humidity greater than 50-60%.
- C-When the surface temperature is less than 3 °C above the dew point.
- D- Out side day light hours on exterior locations

EP-340/2



REPAIR:

- Damaged concrete must be cut back to sound material e.g. by use of pneumatic tools.
- All concrete contaminated with acids, chlorides, etc. must be removed.
- Repair layer must not be applied in thickness exceeding 5 cm, but if thicker layers are required, then application may be built up layer by layer, leaving 1 hour between each coat.
- If overcoating with itself or other coatings, surface must be kept free of condensation, moisture and direct sunlight between coats.
- Remove dust, dirt and contamination before recoating.

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-340 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 5 mm EP-340 normally provides a smooth, high gloss finish after application.
- In hot climate, material temperature should be 20 to 25 °C prior to mixing; otherwise pot life becomes very short.

-Do not thin for any reason

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

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-340/3