

FARCO TEK E-COAT

Chemical Resistant Epoxy Resin Floor and Wall Coating

Product Description

E-COAT80 is a two pack high build solvent free epoxy coating for walls and floors. When fully cured provides a hard, glossy coat with high resistance to abrasion and chemical attack.

● Uses

E-COAT80 is used for the protection of concrete and steel surfaces in the water and food industries, Industrial plant, pipe and tank lining, storage tanks, offshore and marine structures, reservoirs, sewage works, sewage containers, dye works, swimming pools, flour silos, walls and floors.

● Advantages

High mechanical and chemical resistant

- 100 % solids solvent-free
- None shrink curing
- Strong resistance to abrasion
- Decorative and protective glossy coating with different colors
- Excellent adhesion to most building materials

● Technical Information

Recommended DFT per layer	180-300µm
Theoretical coverage per layer	
Specific Gravity (25 °c)	
Pot life* (25 °c)	
Application temperature	
Tack free (25 °c)	
Recoat interval (25 °c)	
Foot traffic (25 °c)	
Full cure (25 °c)	
Adhesion strength	

• Pot life is directly dependant on the component and environment temperature

● Instruction for Use

Surface Preparation

The substrate must be firm, clean, dry and free from all contamination (e.g. oil, grease, fats, chemicals, rust, paint, form release and curing membrane residues, etc.). All loose particles and excess laitance should be removed by mechanical or chemical methods. The freshly applied cementitious mixtures must be cured at least 28 days.

Mixing

The component A (Base) should be stirred and whilst continuing stirring component B (Activator) should be slowly added. Continue stirring until a homogenous mix is obtained. Mix only enough to be used within the recommended pot life. Materials nearing the end of their pot life MUST NOT be mixed with freshly mixed coating.

Application

- Do not apply when the relative humidity exceeds 85% or when the surface to be coated is less than 3°C above the dew point.
- Minimum temperature for application is 5°C.
- E-COAT80 can be applied by brush or roller.
- 2coats will be required when using brush or roller application to ensure the coating is free from holidays, thin edges, runs, snags, etc.
- If recoating cannot be carried out within 30 hours (25 °c) rough with glass paper and clean the surface thoroughly.

The concrete floor requirements for E-COAT80 Application

1. Reinforced concrete with minimum 15cm thickness.
2. Any joints or cracks in the concrete base where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. New concrete slabs must be allowed to cure for at least 28 days.
3. It is recommended to use a plasticizer such as, FARCOTMENT M50, FARCOPLAST M20 or FARCOPLAST P10-3R in order to decrease the water/cement ratio requirement therefore reducing the shrinkage, bleeding and improving the compressive and abrasion resistance.

● Cleaning

Uncured material may be cleaned from application tools, etc. by using thinner. Cured material can only be removed mechanically.

● Packaging

FARCOTEK E-COAT80 is supplied in:

A: 4kg, B:800 g

● Chemical Resistance

(After 7 days curing)

CHEMICAL	CONCENTRATION %	RESULT
Acetic Acid 20 °c	30	E
Acetic Acid 60 °c	10	NR
Calcium Hydroxide	30	E
Citric Acid	30	E
Crude Oil	-----	E
Gasoline	-----	E
Formaldehyde	100	E
Hydrochloric Acid 20 °c	10	E

Hydrochloric Acid 20 °c	36	M
Lactic Acid 20 °c	90	E
Nitric Acid 20 °c	30	E
Nitric Acid 20 °c	69	NR
Sea water	-----	E
Sodium Hydroxide 20 °c	50	E
Sodium Hydroxide 60 °c	50	NR
Sulfuric Acid 20 °c	20	E
Sulfuric Acid 20 °c	30	M
Xylene	-----	E
Toluene	-----	S
Sodium Nitrate 20 °c	20	E

E: Excellent No deleterious action after long term contact.

M: Medium Term Unaffected after 1 month contact but may begin to fail thereafter.

S: Short Term Unaffected after 24 hours contact but may begin to fail thereafter.

NR: Not Resistant Attacked on contact or within 2-3 hours

● Shelf life and Storage

E-COAT80 has a shelf life of 12 months if kept in a dry store between 5°C and 30°C in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

● Safety and Handling Precaution

Avoid contact with the skin, eyes and avoid breathing its vapor.

Wear protective gloves when mixing or using. Use ventilation in confined areas.

● Technical Service

The SHIMISAKHTEMAN Technical Service Department is available to assist you in the field and correct use of our products.