POXY FLOOR EP 400

We Create Better Future

High Performance Epoxy Floor Coating

Description:

POXY FLOOR EP 400 is a two components solvent free epoxy system consisting of a base resin, and hardener. It is suitable for chemical protection coverings of industrial pavements, reinforced concrete and metallic structures. Adheres perfectly to a variety of supports like: concrete, metal, wood, stoneware, etc. Once cured, the product transforms to an anti-dust, chemical resistant continuous membrane. The applied coating is characterized excellent abrasive resistance and mechanical strength.

Aadvantages:

- Solvent free, odorless, anti-dust and anti-bacterial
- Excellent resistance to a wide range of chemicals
- High mechanical strength, with excellent abrasion resistance
- Excellent adhesion to the substrate. Bonding strength is greater than cohesive strength of concrete
- Less labor cost to achieve the required thickness (250 micron per coat)
- Can be utilized as non-slip finish with post addition of slip aggregate.

Uses:

POXY FLOOR EP 400 is used as a resistant coating against chemicals and as an abrasion protective covering for floors.

POXY FLOOR EP 400 is an ideal system for medium duty floor coating such as car parks, industrial floors, laboratories, loading docks ramps, showers, aircraft hangers, etc.

It is suitable for the preparation and decoration of Interior floors.

POXY FLOOR EP 400 is recommended for internal use only.

Surface Preparations:

Old concrete must be a minimum of 28 days old. All surfaces should be sound, clean, dry and free from loose and flaking material, efflorescence, laitance, curing compounds, dirt, oil and grease. Suitable preparation strongly recommended. All necessary repairs should be made prior to application by using BUILDING CONCRETE REPAIR PREDUTY.
Highly porous concrete supports or concrete containing micro-silica must be treated with POXY PUTTY 500.

New concrete floors should have been allowed to cure for at least 28 days in order to allow all shrinkage movement to take place before applying the floor coating.

Metal surfaces must be perfectly cleaned up to the white metal by sand blasting, then treated with one coat of BUILDA POXY before the oxidation process begins again.

Instructions for Use:

POXY FLOOR EP 400 is composed of two components that must be mixed at the moment of use. The entire contents of the hardener Pack (Component B) should be added to the base first (Component A) and mix together for two minutes with a drill at low number of turns (200-300 RPM) till obtaining a homogenous mix.

For Heavy duty Anti slip finish can be obtained by sprinkling silica aggregate 0.1-0.3 mm grain size into the first coat. Ensure that any loose aggregate is removed prior to the application of the second coat.

Standard Compliance:

POXY FLOOR EP 400 conforms to:

- ASTM C 579, C501, D4060
- BS 6319, PART 3 & PART 7

Technical Data:

Appearance:
fluid coating

Color:

Grey, Dark Grey, Blue, Dark Blue

Tensile strength:
35 N / mm²

Compressive strength:
72 N / mm²

Surface Hardness:
85 Shore D

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Flexural strength:
36 N / mm²

Bond strength:
2.0 N / mm² Concrete Failure

Abrasion Resistance:
68 mg, 1000 cycles

Water Absorption:
0.05%

Density:
1.6 Kg. / Lt.

Viscosity at 23°C:
1500 MPa

Pot-life time at 23°C:
50-60 minutes

Light foot traffic at 23°C:
24 hours

Open to vehicular traffic at 23°C:
48 hours

Heat resistance:
-5°C to +80°C

Consumption:
5-6 m² / ltr @ 200 micron

Packaging:
15 kg and 24 kg set.

Storage:
Keep in tightly closed containers and in sheltered and dry place with a temperature between 5°C and 35°C. In these conditions it maintains its characteristics unchanged for 12 months.

Chemical Resistance:

Material	Concentration	Resistance
Lactic Acid	10%	Excellent
Citric Acid	10%	Excellent
Hydrochloric Acid	30%	Excellent
Sodium Hydroxide	40%	Excellent
Butanol	-	Excellent
Crude Oil	-	Excellent
Nitric Acid	20%	Excellent
Sulphuric Acid	40%	Excellent
Mineral Oil	10%	Excellent
Ammonia	10%	Excellent
Sea Water / Jet Fuel		Excellent
Sulburic Acid	40%	Good

The above results are according to tests performed to ASTM D 543 Standards for 7 days at 23ºC.

Limitations:
- All tools must be cleaned with thinner 10 before hardening.
- POXY FLOOR EP 400 should not be applied onto surfaces likely to suffer from rising dampness or humidity RH > 70%.
- POXY FLOOR EP 400 should not be applied at temperature below 5°C.
- POXY FLOOR EP 400 should not be applied at asphalt floors or PVC tiles.

Health & Safety:
Avoid contact with eyes and skin by using gloves and goggles. In case of contact with eyes, clean with plenty of clean water and seek medical advice immediately. Ensure adequate ventilation at working place.

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