

TECHNICAL DATA SHEET

ACF EPOXY Paint®

ACF EPOXY Paint® is two component solvent free coating based on epoxy resin. It is Corrosion resistant, chemical resistant, high gloss epoxy coating for metal and concrete surface designed for floors.

Technical Information

System	: Two component solvent free pigmented epoxy system
Adhesion to dry concrete	: > 2 N / mm ²
Application time	: 20 minutes
Thickness of application	: 200-500 microns

Compressive strength after 7 days (ASTM C579)	: 42.7 MPa
Compressive strength after 28 days (ASTM C579)	: 54.7 MPa
Flexural strength after 7 days (ASTM C580)	: 17.0 MPa
Flexural strength after 28 days (ASTM C580)	: 36.2 MPa

Consumption: 200 – 250 gms/sqmtr (However the actual coverage will vary depending upon the surface conditions and thickness required)

Characteristics

Excellent adhesion and excellent coverage,
Resistant to abrasion and chemicals,
Contains a large amount of rust inhibitors, to apply directly to metal and floors

Uses

- Hospitals and hygiene environments,
- Bathroom, bedroom, kitchen
- Showroom, magazine, storage
- Cheese, milk, wine, beverage, meat, fish and similar food industries,
- Pharmaceutical Industries, Dyestuff, Paper, Accumulator and Fertilizer Industry
- Printing houses, dry cleaners, industrial kitchens and dining rooms,
- Places such as shopping malls, terminals that are exposed to intense pedestrian traffic,
- Data processing and control centres,
- Parking lots and garages,
- Aircraft maintenance hangars

Chemical Resistance

INORGANIC ACIDS

Sulfuric 10%	++	Loss of color
Chlorhydric 37%	++	Loss of color
Nitric 20%	++	Loss of color
Phosphoric 20%	+++	

ALKALINE

Sodium hydroxyde 50%	+++
potassium hydroxyde 50%	+++
Ammoniac 25%	+++

SOLVENTS

Citric 10%	+++	Loss of color	White spirit	+++
Lactic 10%	++	Loss of color	Xylène	+++
Acetic 10%	++		Petrol	+++
Tartaric 10%	+++		Diesel	+++

*Resistance measurements were made under permanent immersion for 21 days at 23 ° C.

+++ Perfectly resistant, ++ Resistant with a small loss of properties

Application Methodology

Surface Preparation

- Ensure that the moisture in the substrate is less than 5% and also ensure that there is no raising moisture or any other source of water leakage such that the substrate gets saturated with water
- Ensure that the substrate to be coated is sound. (Testing may be done by core cutting or weight drop method)
- Prepare the surface by mechanical grinding or other suitable method.
- Remove dust, flakes, oil, grease or other loose foreign particles by sand blasting, iron brush or compressed air. Remove old painting using surface grinder.
- For best bond, concrete surface must be slightly textured.
- Any cracks must be treated properly. The cracks need to be cut open in V-groove shape and then remove the dust and debris from it. Then prime the grooves. The wider cracks (More than 2 mm can be repaired using ACF EPO SCREED. For smaller cracks, apply smooth ACF Epoxy Joint
- Any potholes may be repaired using ACF Epo Screed.
- Allow the repaired areas to cure.
- After curing grind the putty or mortar wherever necessary in order to get a ground level finish
- Then remove the dust using vacuum cleaner before coating with primer

Priming

- Priming may be done using ACF Epoxy primer LB or ACF Epoxy primer HB.
- For application method of Primers kindly refer to the TDS of Primer

Mixing

- Pour Comp A (Base) into clean container,
- Into the Comp A add Comp B (Hardener) slowly whilst mixing
- Mix for 3-5 minutes or till homogeneous mix is achieved.
- Mixing can be done using drill mixer fitted with suitable paddle.

Application

- Apply the mixed product using brush, roller or squeeze over applied dried primer
- Apply as per recommended coverage.
- Apply the coating in recommended thickness in two or three coats.

- The first coat must be dried before coating of second coat.
- Second coat is applied perpendicular to the first coat

As Antiskid

- Apply the first coat over the applied dried primer.
- Sprinkle quartz sand (0.8 – 1.2 mm) when the coating is still wet.
- Sprinkle excessive sand over the applied coating to ensure maximum quartz sand gets adhered to the surface.
- Allow the coating to be dried.
- After the first coat is dried, remove the excessive loose sand using appropriate method.
- After ensuring that the all the sands have been removed, then second coat is applied perpendicular to the first coat application.
- Allow the coating to cure.
- Foot trafficking after 24 hrs, Medium trafficking after 48 hours, heavy traffic after 72 hrs.

Packaging

Metal buckets 21 kg (Comp A + Comp B)

Closed packages can be stored in a cool dry environment at +5 ° C to +30 ° C for up to 12 months under shade away from direct sunlight

Protect from frost.

Storage and lifetime

- When stored in a cool, dry place and at temperatures above 5 ° C, the shelf life is 12 months from manufacture.
- Products should not be stored in damp containers.
- When not in use, open packages should be tightly closed to avoid contact with air.

Health and safety

- This product is irritating to eyes and skin due to the contents. In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. After contact with skin, wash immediately with plenty of water and soap.
- Wear appropriate protective clothing, gloves and face shield.
- The product should not be inhaled. A dust mask should be used if necessary.
- Keep the product out of the reach of children

Note: The initial controls of our product are made during the production phase. We guarantee the quality of our products. All recommendations and instructions on the data sheet are generally based on our experience. Please contact us for applications on special surfaces are not mentioned in the datasheet. Our company reserves the right to update the information on the data sheet in case of technical needs without notice

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