

Dr. Fixit Pidipoxy EC-SF



TWO PACKS HIGH BUILD SOLVENT FREE
EPOXY FLOOR COATING

Description

Dr Fixit Pidipoxy EC-SF is composed of liquid epoxy resin, hardener, pigments & properly selected & graded fine fillers and many additives. It is used as floor coating on general building floors, chemical plants, food industries, refineries, water tanks, etc. because it forms hard and tough coating with superior adhesion, excellent mechanical and chemical properties.

Certified for "FOOD GRADE" by CFTRI, Mysore.

Areas of Application

- Hotels & restaurants.
- Apartments, halls, department stores, schools.
- Gymnasiums, hospitals & laboratories.
- Workshops, garages & parking areas.
- Pulp & paper industries, sugar industries.
- Oil industries.
- Food industries, dairies, breweries, soft drinks bottling plants & clean rooms.
- Swimming pools, water tanks, basement, sewerage treatment plants, water treatment plants.
- Machinery mountings.
- Can be used on walls/ceilings to resist chemical attack.

Features & Benefits

- Adhesion - High adhesive strength to concrete, natural stone, mortar & metals.
- Chemical resistance - Excellent resistance to chemicals.
- Wear resistance - Superior wear resistance property, provides more durable floor and free from dust.
- Solvent free - Hence it can be used in enclosed locations.
- Finish - Forms seamless coating with the surface.
- Gloss - Excellent lustrous surface finish.
- Aesthetics - Available in a variety of standard colours.
- Non-slip - Provides non-slip / anti-skid coating.
- Can withstand temperatures upto 85°C.
- Shades - Available in wide range of colour (Refer shade card).

Joint Design

- Joints should be cleaned and prepared.
- Expansion & moving joints are to be brought over through subsequent flooring system & sealed with properly selected sealants.
- All other stable joints (dummy joints, etc.) are to be filled up prior to laying the screed as per the designed thickness.

Method of Application

1 SURFACE PREPARATION

- Surface of concrete slab either new or old, to receive **Dr. Fixit Pidipoxy EC-SF** can be acid-etched or mechanically grind/sanded, scabbled, grit blasted to remove any dirt, dust, grease, laitance, paints, coatings or other contaminants and provides a rougher surface for good bonding.
- New Concrete floor to receive **Dr. Fixit Pidipoxy EC-SF** should be power floated and levelled to finish. No cement should be sprinkled over during floating. Should be free of oil/grease staining, sealers, curing compound, paints, and other contaminants. For high water table level, ground or basement floors must be waterproofed at raft level to prevent rising moisture. Concrete should be allowed to cure for a minimum period of 28 days.

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2 PRIMING

- Apply with a brush or roller a priming coat of Dr. Fixit Pidipoxy EP to the prepared surface. Allow the primer to dry (maximum 24 hours) before application of **Dr. Fixit Pidipoxy EC-SF**.
- For detailed application methodology of priming, refer datasheet of Dr. Fixit Pidipoxy EP.

3 MIXING

- Transfer part A in a suitable clean container, add part B to it and stir with a low speed electrical drill with attached paddle stirrer at 250 - 300 rpm for 3 - 5 minutes to a homogeneous & uniform colour mix.

4 APPLICATION

- Apply the mix material by brush, roller or airless spray at approximately 3-4 m² / kg / coat at 175 - 200 microns DFT.
- Intercoat application time is 8 to 10 hours. If earlier coat has cured for longer duration, roughen the surface by sanding & then subsequent second coat should be applied.
- Finished coating should be protected and allowed to cure for 7 days.
- For application over Dr. Fixit epoxy floor screed, the coverages of Dr. Fixit Pidipoxy EC-SF will reduce depending upon the finish of application of the screed. A third coat may be necessary.

5 CLEANING

- All tools & tackles are to be cleaned immediately after application with industrial grade xylene, toluene, acetone & thinner followed by soap water solution.

Precautions & Limitations

- Ensure that proper vapour barrier is placed below concrete substrate.
- Surface moisture content of the concrete substrate should be less than 5%.
- Substrate temperature should be 5°C above the measured dew point.
- In case of acid cleaning, neutralize the substrate with plenty of water (litmus paper test) & then check the moisture level when it is dry.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Mix Ratio (Part A : Part B) Parts by wt@30°C		80 : 20
Specific gravity, g/cc		1.35 +/- 0.02
Hardness, Shore D	ASTM D 2240	84
Tensile strength, 7 days N/mm ²	ASTM C 307	15
Compressive Strength, 7 days N/mm ²	ASTM C 579	85
Flexural Strength, 7 days N/mm ²	ASTM C 580	35
Elongation (%)		16
Chemical resistance Machine oil Heavy duty oil H ₂ SO ₄ (15%) HCL (15%) Acetic acid (10%) Sodium Hydroxide (50%) KOH (50%) Solvents Oil & fats Salts		Passes
Abrasion Resistance	ASTM D 4060	Passes

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5 kg pack

Coverage

Approximately 3-4 m² / kg / coat at 175-200 microns DFT

Primer - Approx. coverage 4 - 4.5 m² / kg / coat. Depending on the porosity of the surface.

Shelf Life & Storage

Shelf life of 12 months is guaranteed when stored in factory packed unopened containers in a cool dry and elevated place away from direct sunlight and at a temperature not exceeding 30°C

Health & Safety Precautions

- **SKIN CONTACT:** Wash skin with soap & water. Remove contaminated cloths. Seek medical attention if irritation persists.
- **EYE CONTACT:** Immediately splash eyes with plenty of water. Consult Physician if irritation persist.
- **INHALATION:** Move the subject into fresh air. If breathing is difficult, give artificial respiration. Obtain medical attention immediately.
- **INGESTION:** Do not induce vomiting. Never give anything by mouth to an unconscious person. Call a Physician.
- **NOTE TO PHYSICIAN:** There is no specific antidote. Treatment should be given symptomatically on the clinical conditions.
- **FIRE EXTINGUISHING MEDIA:** Both materials are combustible. Use Foam, Dry Chemical Powder, or CO₂ to extinguish the fire.
- **THERMAL DECOMPOSITION PRODUCT:** These products may be toxic. May yield acrid smoke and irritating gases with oxides of carbon and other toxic vapours.
- **SPECIAL FIRE FIGHTING PROCEDURE:** It is advisable to use self contained breathing apparatus or equivalent [MSHA/ NIOSH / approved] with full protective clothing.
- **UNUSUAL FIRE AND EXPLOSION HAZARDS:** Use water spray to cool the containers. Material can form explosive mixture with air in hot condition.

Other Product Categories Available

DR. FIXIT has wide range of Waterproofing & Construction chemicals which includes,

- Waterproofing Products
- Repair Products
- Sealants
- Flooring Products
- Exterior Coating Products
- Tile Fixing Range
- Concrete Admixtures
- Grouts



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