

# Dr. Fixit Pidipoxy EC



## TWO PACK SOLVENT BASED EPOXY COATING FOR WALL & FLOOR

### Description

**Dr. Fixit Pidipoxy EC** is composed of liquid epoxy resin, hardener, chemical resistant pigments, properly selected fine fillers, solvents and many additives. It is used for residential, commercial & industrial floors & walls, because it forms a hard and tough coating with superior adhesion, mechanical and chemical resistance properties. The smooth & glossy finish of the coating prevents dust generation, so maintains the clean & eco-friendly environment.

Certified for "FOOD GRADE" by CFTRI, Mysore.

### Areas of Application

- Walls & floors of General Buildings - Apartments, halls, department stores, gymnasiums, schools, basement, etc.
- Hotels & restaurants.
- Laboratories, clean rooms & hospitals.
- Garages & parking areas.
- Chemical plants & petroleum refineries.
- Oils & fat factories.
- Pulp & paper mills and sugar plants.
- Dairies, food and beverage processing plants, abattoirs & soft drink bottling plants.
- Electroplating plants & machinery mountings.
- Swimming pools & water tanks.
- Sewerage treatment plants, water treatment plants.
- Automobile paint shops & repair shops.

### Features & Benefits

- Adhesion - High adhesive strength to concrete, mortar & metals prevents from debonding.
- Wear resistance - Superior wear resistance property provides durable floors prevents dust generation.
- Uniformity - Provides joints free monolithic & seamless floor finish provides easy of movements over the floor.
- Aesthetic & finish - A lustrous smooth finish with attractive colour shades raises the appearance value of the floor.
- Chemical resistance - Excellent resistance to a variety of chemicals prevents erosion of cementitious substrates.
- Strength - High compressive & tensile strength with little flexibility prevents cracking of the coating.
- Shades - Available in wide range of colours (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.

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### Method of Application

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#### 1 SURFACE PREPARATION

- New Concrete floor surface should be power floated and leveled. The concrete top surface while laying should not be floated with sprinkling of cement. Concrete should be allowed to cure for a minimum period of 28 days.
- The ground floor slab and areas, which are subjected to high water table level & rising moisture must be waterproof before floor treatment.
- Acid clean/ etch of new or old concrete surface is essential to provide excellent bonding of the coating. Wash the surface with water till neutralization (perform litmus test).
- Mechanical grinding or sand/grit blasting is the most ideal method to remove hidden dirt and loose particles of the substrate.
- Remove laitance, paints and earlier coating by mechanical abrading. Degrease oil & grease by using solvents like acetone, toluene & xylene (thinners).

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#### 2 PRIMING

- Apply one coat of Dr. Fixit Pidipoxy EP primer with a brush or roller over the prepared surface. Apply Dr. Fixit Pidipoxy EC within 24 hours of drying.
- For detailed application methodology of priming, refer datasheet of Dr. Fixit Pidipoxy EP.

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#### 3 MIXING

- Uniformly mix the content of Part A container using spatula or wooden batten & transfer it to a suitable clean plastic or metal bucket. Shake well the content of Part B component & transfer the entire quantity.
- Mix both the parts by using electric drill machine attached with a paddle stirrer at 250 - 300 rpm for 5 minutes.
- Allow the mix material to mature for 5 minutes prior to application.

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#### 4 APPLICATION

- Apply the mix material after maturation by best quality painting brush, roller or airless spray at approx. 4 - 6 m<sup>2</sup> / kg coverage at minimum dry film thickness of 50 microns per coat.
- Apply second coat in reverse direction of the first using same technique after an interval of 8 - 10 Hrs.
- In case of first coat is dried for a longer period, roughen the surface by sanding.
- For application over Dr. Fixit epoxy floor screed, the coverages of Dr. Fixit Pidipoxy EC will reduce depending upon the finish of application of the screed. A third coat may be necessary.

#### Airless spray specification

Nozzle tip size: 0.018' - 0.021'

Nozzle pressure: 2900 psi

#### Application on Steel Surfaces

- Steel surfaces must be shot blasted to a depth of 100-125 microns. Dr. Fixit Epoxy Zinc primer is advised to be applied immediately on the shot blasted surface to provide cathodic protection and then overcoated with Dr. Fixit Pidipoxy EC in 2 coats to achieve 100 micron DFT.

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#### 5 CLEANING

- The tools, equipments & mixing container can be cleaned with solvents like acetone, toluene, etc. before the coating cures.
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### Precautions & Limitations

- New concrete and cementitious surface must be at least 28 days fully cured and dry, before surface preparation.
- Do not dilute Dr.Fixit Pidipoxy EC with solvents and the mixed material must be used within the pot life specified.
- 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
Colour		Selected shades (Refer Shade Card)
Finish		Semi glossy
Density, g/cc	ASTM D 3800:79	1.15 +/- 0.02
Solids (% by volume)	ASTM D 1010	62 +/- 2
Touch drying time, Hrs at 30°C		4 - 5 Hrs
Full cured time, days at 30°C		7 days
Pot life @ 30°C, minutes		45-60
Hardness, Shore D	ASTM D 2240-05	70
Compressive strength, 7 days, N/mm <sup>2</sup>	ASTM C 579	85
Tensile strength, 7 days, N/mm <sup>2</sup>	ASTM C 307	15
Flexural Strength, 7 days, N/mm <sup>2</sup>	ASTM C 580	35
Chemical resistance (7 days immersion)		
Water		
Machine oil		
Heavy duty oil		
H <sub>2</sub> SO <sub>4</sub> (15%)		
HCL (15%)		Passes
Acetic Acid (10%)		
NaOH (50%)		
KOH (50%)		
Solvents		
Oils & fats		
Salts		
Over coating time, Hrs		15 - 16
Abrasion resistance	ASTM D 4060	Passes

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### PACKING

5 kg pack

### Coverage

Approximately 4-6 m<sup>2</sup>/ kg at 50 microns DFT (single coat). Depends on the porosity of the surface. (100 microns WFT)

- Allow 8 to 10 hours between each coat.
- Primer coverage (Dr. Fixit Pidipoxy EP) - 4-4.5 sq meter per kg / coat

### Shelf Life & Storage

Shelf life is 12 months from the date of manufacturing. Store in a cool & dry place in unopened condition.

### Health & Safety Precautions

- All epoxy products can be harmful to the skin. During use, avoid inhalation of the material and contact with skin and eyes.
- 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 to 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 CO<sub>2</sub> 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.

#### Note

Finished coating should be protected and allowed to cure for 7 days.

### Other Product Categories Available

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

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



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