

# Dr. Fixit Pidipoxy ESL



## FOUR PACK EPOXY RESIN BASED SELF-LEVELLING FLOORING SYSTEM

### Description

**Dr. Fixit Pidipoxy ESL** is composed of liquid epoxy resin, hardener, pigments, properly selected & graded aggregate & many additives. It is used as self levelling coating of floors in residential & commercial buildings, industrial floors because it has excellent self-levelling properties, hard & tough coating surface with strong adhesion to the substrate. The mechanical & chemical resistance properties of **Dr. Fixit Pidipoxy ESL** protects the floor from the movements of light heavy duty trolleys, fork lifts and prevents erosion due to attack of a wide range of chemicals.

### Areas of Application

- Industrial and commercial floors.
- Kitchens & restaurants.
- Food processing units & bakeries.
- Dairies, breweries and soft drinks bottling plants.
- Pharmaceutical units.
- Hospitals, OPD and laboratories.
- Showrooms and shopping malls.
- Heavy traffic warehouses.

### Features & Benefits

- Suitability to climatic condition - Formulated to meet the requirements of tropical climatic conditions.
- Levelling - Self-levels itself & provides smooth finish.
- Consistency - Consistency ensures that the product flows easily and can be trowelled to level finish uniformly using the Notch Trowel.
- Bonding - Provides excellent bonding hence prevents delamination.
- Application advantage - Can be used directly on concrete floors to provide smooth level surface without screed.
- Water resistant - Excellent water resistance prevents leakage in base concrete.
- Abrasion resistant - Resistance to abrasions due to manual and trolley with rubber or nylon wheels movements.
- Ease of application - Simple, quick and easy to lay.
- Setting - Sets fast so allows manual movements after 24 hours.
- Gloss - Provide glossy finish benefits better aesthetic appearance & easy to clean.

### Joint Design

- All expansion joints, movement joints are to be brought over through subsequent flooring system & to be treated with sealants. All other stable joints (dummy joints, etc.) are to be filled up prior to lay the topping as per the designed thickness. Joints should be cleaned, prepared as per specification & filled with suitable joint filling material.
- Consult technical team for detailed specification in case of other type of joints.

### Method of Application

#### 1 SURFACE PREPARATION

- The substrate should be clean, sound and free from loose material and contamination such as plaster, oil, paint, grease, etc.
- New concrete should be water cured for minimum 28 days.
- Large cracks and damaged areas should be repaired with appropriate repair materials and leveled off.
- The surface should be levelled evenly. As self levelling product's self levelling action is localised easily and

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does not cover up irregularities.

- The surface must be levelled so that the self levelling & surface finish with Dr. Fixit Pidipoxy ESL is achieved. Due to glossy nature incase of undulation it can be easily seen by naked eyes.

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### 2 PRIMING

- Prime the substrate with **Dr. Fixit Pidipoxy EP** as a primer prior to the application of **Dr. Fixit Pidipoxy ESL**.

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### 3 MIXING

- Each 17 kgs **Dr. Fixit Pidipoxy ESL** kit consist of four packs. Part A is an epoxy base component, Part B is hardener component. Part C is filler (Powder) & Part D is a coloured pigment paste.
- Transfer entire quantity of Part A & Part D after self-mixing into a suitable mixing container along with contents of Part B.
- Mix the three liquid components using a slotted paddle or a 'jiffy' mixer attached to an electric drill in slow circular motions to assure complete mixing. Mixing should not exceed 3 minutes.
- Add the filler slowly while mixing to produce a uniform free flowing consistency. Mixing with filler should be carried out for not more than 3 minutes.
- DO NOT attempt to mix by hand or by any other means.

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### 4 APPLICATION

- Apply the mixed material over the primed surface, spread with a serrated trowel or squeegee and allow to self-level. The material must then be rolled with a spiked roller to achieve air release and final levelling. Rolling must be done immediately after placing the material. Do not attempt to float the setting surface.
- The required thickness must be achieved in one application. Also the best results are achieved when the pouring and levelling is a continuous process until the designated area is completed. Good site organization is essential.

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### 5 CURING

- For allowing the operations over floor coated area, the material has to achieve its minimum mechanical properties to perform, i.e.  
Foot Traffic: 1 day @ 25°C.  
Vehicle Traffic: 7 days @ 25°C.

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### 5 CLEANING

- Clean the tools and equipment with thinners or solvents immediately after use.
- Hardened material can be removed only mechanically.

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### Precautions & Limitations

- Material should be mixed / laid well within the pot life period.
- Pot life will change depending on the ambient temperature and condition.
- Part mixing of material is not recommended.
- It will maintain the gradient of the base substrate.
- Application should not commence if the temperature of the substrate is below 5°C.
- Ensure the vapour barrier underneath the concrete substrate.
- Acid etched surface should be properly neutralized by washing with water, followed by litmus paper test to confirm the neutralization (pH - around 7.0).
- Substrate moisture content must be less than 5%.

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### Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Pot life @ 30°C, minutes		25 - 30
Initial setting time, Hrs at 23°C		24
Final curing time, days at 23°C		7
Compressive strength, 7 days, N/mm <sup>2</sup>	BS 6319 Part 2	107
Flexural strength, 7 days, N/mm <sup>2</sup>	BS 6319 Part 3	34.10
Tensile strength 7 days, N/mm <sup>2</sup>	BS 6319 Part 7	21.00
Bond strength, N/mm <sup>2</sup> Pull out, 7 days	BS 1881 Part 207	1.81, Concrete Failure
Abrasion resistance, mg	DIN 53754	19
Hardness, shore D	ASTM D 2240-05	85
Water Absorption, %	ASTM C 413: 80	0.05 +/- 0.01
Chemical resistance (7 days immersion) Water Machine oil Heavy duty oil H 2SO4 (5%) HCL (5%) Acetic Acid (5%) NaOH (5%) Solvent Oils & fats Salts		Passes

### PACKING

17 kg

### Coverage

**Dr. Fixit Pidipoxy ESL** can be applied up to 2 mm thickness under normal conditions. Covers approximately 5 m<sup>2</sup> per 17 kg pack @ 2 mm thickness.

### Shelf Life & Storage

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

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### 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 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

Freshly laid **Dr. Fixit Pidipoxy ESL** should be protected from direct sunlight and/or strong drying winds until the material is hard (Minimum 12 hours).

### 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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