

Dr. Fixit Pidipoxy EP



TWO PACK EPOXY RESIN BASED PRIMER
FOR BONDING

Description

Dr. Fixit Pidipoxy EP is composed of epoxy resin, hardener & many other additives. It is used for bonding of old to new concrete and also used for repair works, stone works and screeds because it provides strong monolithic bond, very high strength than the parent concrete & sufficient application time to finish the job.

Specification

Meets the requirement of ASTM C 881 standard.

Areas of Application

- Roads, bridges, pavements, loading bays and factories.
- For bonding granolithic floor toppings such as sand cement screed, mortars and epoxy screed.
- Internal and external applications.
- Used as part of a repair system where a substrate/repair barrier is required or where the substrate is likely to remain permanently damp or wet.

Features & Benefits

- Application - Can be applied on to dry or damp substrate.
- Strength - Exhibits excellent mechanical strength & bond strength.
- Adhesion - Exceeds the tensile strength of the host concrete, hence bond strength is excellent.
- Ease of application - Slow curing allows time to erect steel reinforcement and formwork.
- Suitability - For use on horizontal surfaces or on vertical surfaces where mortar or concrete can be supported by formwork. The long 'open time' makes it suitable for use with formwork or where additional steel reinforcement has to be fitted

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 or suitable joint filling material.
- All other stable joints (dummy joints, etc.) are to be filled up prior to laying of the screed, as per the designed thickness.

Method of Application

1 SURFACE PREPARATION

- Remove laitance, dust, unsound material, loose plaster, paints, oil, grease, corrosion deposits, algae, etc & roughen the surface by any mechanical means to increase physical bonding.
- Clean the substrate either by vacuum cleaner or by sweeping.
- Any steel reinforcement and form work should be prepared, cut to size and shape, and made ready for assembly before mixing commences making it more suitable for use where additional steel reinforcement and form work has to be fitted or where temperatures are high. The minimum application temperature for **Dr. Fixit Pidipoxy EP** is 5°C.

2 MIXING

- The base and hardener components should be stirred separately before mixing to disperse any settlement.
 - The entire contents of the part B (hardener) should be poured into the part A (base) and thoroughly mixed using a suitable slow-speed drill or mixing paddle for 2 - 3 minutes. The sides of the tin should then be scraped and mixing should continue for further 2 minutes.
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3 APPLICATION

- **Dr. Fixit Pidipoxy EP** is designed with an application time for top coat / overcoating of 24 hours at 20°C, 12 hours at 35°C and 5 hours at 45°C.
- **Dr. Fixit Pidipoxy EP** should be applied as soon as the mixing process has been completed.
- It can be applied by brush, roller or airless spray to the prepared surfaces.
- The new concrete or screed may be applied to the coated substrate well within the stipulated open time.
- However, normally the coated substrate should be left for one hour before the fresh concrete or epoxy screed is placed.

4 FINISHING

- Where **Dr. Fixit Pidipoxy EP** is to be used as part of a repair system to form a substrate/repair barrier, care should be taken to achieve an unbroken coating. One coat should be applied and allowed to set. A second coat should be applied and used as the bonding coat. In some situations (e.g. sprayed concrete repairs) it may be advantageous to scatter dust-free sharp sand over this coat and leave it to harden.
- As soon as the **Dr. Fixit Pidipoxy EP** has been applied, any required steel reinforcement and/or formwork should be erected and fixed securely in place.

5 CLEANING

- All tools & tackles are to be cleaned immediately after application with industrial grade xylene, toluene, acetone, thinner and 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.

Note: **Dr. Fixit Pidipoxy EP** for fast setting application during cold weather working can be made available on request.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Pot life, Hrs at 35°C		1 - 2
Over lay time, Hrs		max. 24
Initial hardness, Hrs		48
Full curing time, days		7
Compressive Strength, N/mm ²	BS 6319, Part 2	50
Tensile strength, N/mm ²	BS 6319, Part 7	12
Flexural strength, N/mm ²	BS 6319, Part 3	35
Shear strength, N/mm ²	BS 6319, Part 4	25
Adhesion bond to concrete	ASTM C 881	3 (In general, the bond will always exceed the tensile strength of the host concrete.)

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PACKING

5 kg

Coverage

The coverage of **Dr. Fixit Pidipoxy EP** is approximately 4 to 4.5 m² / 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

- **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 or not breathing, 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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