

## TWO-COMPONENT POLYESTER RESIN BASED GROUTS

### Description

**Dr. Fixit AnchorFix** is a two-component polyester resin & hardener-based anchor fixing grout for anchoring of bolts from 8 to 50 mm dia into concrete, rock, masonry or brickwork. The grout provides a permanent fixing arrangement and provides very high initial strength where high speed of installation and early application of load is required. The 2 types of polyester resin grout are all premeasured, and pre-packed. After hardening the grout produces anchorage of consistent reproducible values.

### Types

- **Dr. Fixit Anchor Fix S (Paste Version)**

The product is recommended to be used for holes in vertical surface where the annular space between the bar and the hole is to a maximum of 50 mm

- **Dr. Fixit Anchor Fix P (Pourable Version)**

The product is to be used for holes in horizontal position.

### Areas of Application

For fixing of -

- Rebar Starter
- Insert Plates
- Foundation bolts
- Tie bars
- Anchoring rails for overhead cranes
- Anchors in docks

### Features & Benefits

- **Bond strength** - Rapid gain in early compressive & bonding strength
- **Vibration** - Resistant to heavy vibrations
- **Moisture resistance** - Resistant to moisture even in damp areas
- **Shrinkage** - Non-Shrink hence provides 100% contact with bar & substrate
- **Water resistance** - Water Insensitive & resistance to permanent immersion
- **Ease of application** - Easy to mix & apply
- **Adhesion** - Bonds strongly with concrete, rock & steel members
- **Suitability** - S grade is suitable for vertical, horizontal applications.  
P grade is suitable for horizontal applications

### Method of Application

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#### 1 SURFACE PREPARATION

- The areas should be marked for fixing the anchors prior to start drilling.
- Holes are to be drilled in to the concrete using rotary percussive drill machine, ensuring the sides of the hole is rough enough for proper anchorage. During the drilling operation, care must be taken that the drilled hole is shaped preferably to a dovetail configuration. In case, the sides are parallel inside the drilled holes, roughening for adequate anchorage must provide sufficient key.
- Surface should be sound & free from oil, grease & laitance
- Clean the surface thoroughly, remove the dust with compressed / vacuum air
- New concrete surface has to be cured for minimum 28 days.

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### 2 BAR PREPARATION

- All bars should preferably be degreased with degreasing solvents two to three times
- Flaky rust to be removed by wire brushing & scraping.

### 3 MIXING

- The complete pack of resin and catalysed filler must be stirred individually in individual container.
- The entire contents must be emptied in dry & clean container and mixed mechanically with a slow speed stirrer till a smooth, even consistency, homogeneous mix is obtained.
- The mixed grout material must be placed within the gel time of the grout.
- Do not attempt to mix partial pack components.

### 4 INSTALLATION

#### Dr. Fixit Anchor Fix polyester resin grout P

- The mixed grout material is poured steadily into the prepared holes.
- The anchor bar is placed in the hole to the required depth and hold in position.
- The anchor bar is then slightly agitated holding bar in position to achieve complete bond.
- The bar should then be left undisturbed in the required position until the resin is set completely.

#### Dr. Fixit Anchor Fix polyester resin grout S

- The mixed grout must be injected to the rear of the hole to avoid air entrapment. The thixotropic nature of the mix will prevent significant flow of resin out of the hole.

#### Factors influencing Anchor Strength:

The high strength obtained by Dr. Fixit Anchor Fix exhibits strong anchors to be created. Ultimate strength is determined by:

- Strength of embedded material
- Length of grout mix bond to bar
- Hole preparation and formation
- Type of the bar
- Dimension of bar

### CLEANING

- Clean equipments & tools by solvents like xylene, toluene or thinner before setting of the grout

### Precautions & Limitations

- Depth of installation must be calculated for better anchorage within the concrete, to ensure the shear stress developed is within permissible stresses
- Part mixing is not allowed. Material to be mixed and used in one operation after opening the container.
- The creep of the mixed grout under loading may be significant at temperatures of 40 °C and higher
- Wastage factor to a maximum of 25% may be considered during application.
- When the area is under fire safety regulations, Dr. Fixit Anchor Fix should not be used where the structure has to maintain the similar performance as parent material.
- The areas of application must be well-ventilated and no naked flames allowed.
- Hand gloves must be used while using the resin anchor grout. In case of contact with the skin, it must be washed immediately with soap and water thoroughly. In case of contact with eye, immediately wash with plenty of water and seek medical attention.

# Dr. Fixit Anchorfix - S&P



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### Technical Information

PROPERTIES	RESULTS	
	Dr. Fixit Anchor Fix S	Dr Fixit Anchor Fix P
Appearance	Viscous paste	Viscous pourable paste
Colour	Brown	Brown
Specific gravity @ 30°C, gms/ml	1.99	2.0
Gel Time at 30°C, minutes	25	20
Compressive Strength N/sqmm - 7 days	65	70
Tensile Strength N/sqmm, 7 days	16	17.5
Flexural Strength N/sqmm, 7 days	32	34
Pullout strength N/sqmm, 7 days	25	30
CHEMICAL RESISTANCE	Resist attack by Oils, acids , alkalis & solvents, sewage, salts , petrol , etc.	

### Coverage

Dr. Fixit Anchor Fix S : Yield: 1 Kg pack = 0.50 Ltr

Dr. Fixit Anchor Fix P :Yield: 1 Kg pack = 0.50 Ltr

### Packaging

Dr. Fixit Anchor Fix S : 1 Kg

Dr. Fixit Anchor Fix P : 1 Kg

### Shelf Life & Storage

shelf life of 6 months, from date of manufacturing when stored in unopened containers

Store at cool & dry place, below 25°C.

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### Health & Safety Precautions

- As with all chemical products, caution should always be exercised. Protective clothing's, such as gloves and goggles, should be worn
- Treat any splashes to the skin or eyes with fresh water immediately.
- Should any of the product be accidentally swallowed, do not induce vomiting but call for medical assistance immediately.

### 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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