



Dr. Fixit Pidigrout EG-3

THREE-COMPONENT EPOXY RESIN BASED MACHINERY FOUNDATION GROUTS GRADES - EG-3

Description

Dr. Fixit Pidigrout EG-3 S L&S are composed of liquid epoxy resin, hardener, properly selected & graded aggregates filler & additives. The grout are specially formulated for grouting of machineries & equipments where early strength & chemical resistance are important because these grouts withstand heavy dynamic & mobile loads, vibrations and chemical resistance.

Standard compliance / Specification

Meets the requirement of AS TM D 2240 : BS 6319 ; BS 1881

Typical Application

Dr. Fixit Pidigrout EG-3 S is used for grouting of base plates & machines like,

- Large compressors.
- Pumps.
- Turbines.
- Rail grouting & keyways.
- Inverted base plates.
- Precast bridge sections, etc.

Features

- **Gap filling ability** - Dr. Fixit Pidigrout EG-3S has a pourable consistency for gap width from 10 mm to 65 mm. & Dr. Fixit Pidigrout EG-3L for gap width above 65 mm to 120 mm.
- **Setting time** - EG-3S sets within 2 hrs & EG-3L within 4- 5 hrs, which is an advantage for downtime.
- **Strength** - Attains very good early compressive strength.
- **Chemical resistance** - Good chemical resistance to a wide range of mineral acids, alkali, some organic acids and solvents.
- **Dynamic load stability** - Good tensile and flexural strengths, with a very good dynamic load resistance.
- **Bonding** - Excellent bond strength with concrete and steel.
- **Creep** - Low creep under continuous loads.
- **Corrosion** - Provides corrosion protection to both in concrete foundations and machines of concrete and steel.

Packing

7.5 Kg

Method of Application

1 SURFACE PREPARATION

- For all epoxy resin applications the quality of surface preparation has a direct effect on the performance & durability of system.
- Concrete surface should be sound, dimensionally stable, clean, free from laitance, paint, oil, grease. Mould release agent, & residual curing compound.
- A rough scabbed surface is preferable. Metal surfaces to be abraded And should be free from any rust, scaling or paint.
- Formwork if used should be wrapped in polythene to ensure a clean release after grouting.
- Seal the formwork joints using epoxy or any other suitable sealant to prevent the leakage of epoxy resin.



2 MIXING

- First mix thoroughly the contents of individual components, base & hardener into their original container until homogeneous mix is obtained.
- Transfer the entire quantities of both the component into a suitable mixing vessel.
- Mix the content in this vessel by drill machine attached with paddle stirrer at slow speed of 250 - 300 rpm for 3 - 5 minutes form a uniform mix.
- Slowly star addition of third filler component & continue the mixing until a free flowing & pourable consistency is achieved.
- Material must be placed within the pot life period.

3 APPLICATION / PLACING

- Immediately after mixing, pour the grout into prepared area through a hopper by maintaining a grouting height in such a manner that it has only the shortest distance to flow. For longer distance grouting a suitable head pressure is required.
- Ensure that the area to be grouted is not completely sealed so that any displaced air can be expelled through air vents provided.
- Pour the grout continuously from one end only.
- Allow the grout to set before the removing the form work usually after 6 hrs.
- Where placement exceeds grouting height of 80 mm, application should be carried out in layers.
- The second layer should be applied after approx. 6 hrs.

4 CLEANING

- Clean tools & equipment with solvents & thinners like xylene, toluene, epoxy or NC thinners, immediately after use before hard setting of grouts.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS	RESULTS
		EG- 3 S	EG- 3L
Appearance of mix		Free flowing thick paste	Free flowing thick paste
Colour		Yellowish brown	Yellowish brown
Mixing Ratio parts by weight			
Base: Hardener: Filler		1225: 275: 6000	1265: 610: 5625
Pot life @ 30°C, Minutes		30 - 40	75 - 90
Setting time@ 30°C, Hrs		1 - 2	4 - 5
Curing time @ 30°C, days		7	7
Compressive strength, N/mm ² 7 days	BS: 6319- 1983, part - 2	90	80
Tensile Strength, N/mm ² 7 days	BS: 6319- 1983, part - 7	12	11
Flexural strength, N/mm ² 7 days	BS: 6319- 1983, part - 3	20 - 25	20 - 22
Hardness, Shore 'D' - 7 days	ASTM D 2240	80 - 85	80 - 85
Pull off strength, N/ mm ² 7 days	BS: 1881, part 207	2.5 - 3	2.5 - 3



Coverage

Density : 2000 ± 50 kg/Cum

Shelf Life

- Shelf life is 18 months from the date of manufacturing in unopened condition.
- Store in a cool & dry place.

Health & Safety

- Use rubber hand gloves & safety goggles, while using Dr Fixit Pidigrout EG-3
- In case of contact with skin, wash with plenty of water.
- Keep out of reach of children's.
- Do not smoke during application.

Other Products Categories available

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