

Dr. Fixit Pidigrout 10M



DUAL SHRINKAGE CEMENTITIOUS FLOWABLE GROUT FOR REPAIR RCC STRUCTURES

Description

Dr. Fixit Pidigrout 10M is a ready to use, non-shrink, free-flowing and high strength cementitious grout. Dr. Fixit Pidigrout 10M is engineered designed suitable for precision grouting where it is essential to withstand static and dynamic loads.

Areas of Application

- Baseplate foundation of Heavy machinery and equipment foundations like boiler foundation and turbine generator bearing.
- Bridge bearing pads and structural columns in pre-cast crane rail construction.
- Cavities, gaps, recesses and anchorage.

Features & Benefits

- Easy to use : Ready to use and reduce time for repair
- Long term durable : Provides excellent durability and strong structural repair
- Pourable mortar: Self-compacting grout to ensure high level load bearing areas
- Dual shrinkage compensated : Dual expansion system with long-term drying shrinkage hence reducing cracking tendency
- High built technology : It can be applied up to 60 mm thickness in single layer
- Designed mechanical properties : Excellent compressive strength, flexural strength and tensile strength.

Method of Application

1 SURFACE PREPARATION

- Concrete surfaces should be sound, stable, clean and free from laitance, paint, oil, grease, and any residual mold release agents and curing compounds.
- The Metal surfaces should be free from any rust, scaling, cleaning can be carried out with suitable methods like by using wire brush, water jetting, mopping, etc.
- Defective concrete surfaces must be cut back to a sound base and ensure to exposed key aggregates on surface.
- Corroded reinforcing steel should be exposed around its full circumference and cleaned using Dr. Fixit Rust Remover to remove all loose scale and corrosion deposits and allow it to be cleaned for 30 min till the surface becomes bright in condition.
- Apply one coat of - Dr. Fixit Zinc-Rich primer on the reinforcing steel. If any discontinuity in the applied film is noticed, one more coat must be applied.

2 APPLICATION

- Dr. Fixit Pidigrout 10M should be mixed in a high shear grout mixer for optimum dispersion and workability.
- According to the grout consistency requirement, the water addition for 50 kg of Dr. Fixit Pidigrout 10M at 27°C should be approximately 7.0 to 7.5 litres for flowable consistency and 6.5 to 7.0 litres for dry & trowelable consistency.
- Ensure the mixing water is below 25°C using ice if necessary, especially if the ambient temperature is above 40°C.
- Add approximately 85% of measured water to the mixer and then slowly add the powder. Mix for 1 - 2 minutes and then add remaining water to the desired final consistency. Do not add more than the maximum recommended water quantity.
- Mix for an additional 2 - 3 minutes until a smooth, uniform, homogenous mix is achieved.
- Pour the mixed grout via a hopper from one side only to avoid air entrainment. Maintain a head of at least 150 - 250 mm to ensure pressure to promote the material flow.



- Good curing practice is essential for all exposed surfaces. Immediately after pouring apply two coats of Dr. Fixit Curing Membrane. Alternatively cure using water ponding, spray misting or covering with wet sheeting for a minimum of 7 days.

3 FORMWORK

- The forms must be of good quality, several hours prior to placing, the concrete substrates should be saturated with clean water and ensure no ponding water on reappplied surface.
- The shuttering must be proper without any gaps or loose materials to ensure no leakages during placing.

Precautions & Limitations

- Do not add extra water in any circumstances.
- Ensure that the shuttering is suitably robust to withstand the weight of grout.

Technical Information

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Free flowing powder
Colour		Cementitious grey
Water / Powder		0.14 - 0.16
Flow on table @30°C in mm		Min 260 mm
Fresh wet Density, Kg/m ³		2250 - 2400
Compressive Strength, N/mm ² (@30 deg.C).	IS 4031 - Part 6	
1 Day		25
3 Days		35
7 days		55
28 days		66
Flexural Strength, N/mm ² , 28 days	ASTM C 580	10
Tensile Strength, N/mm ² , 28 days	ASTM C 307	5
Pull Out Bond Strength at 7Days @ 0.14 Water to powder Ratio (N/mm ²)	BS 1881, Part 207	> 17
Expansion (%)		
- Restrained Condition		0.6 - 1
- Unrestrained Condition		Up to 2 (Plastic State)

Theoretical Coverage

Yield: 25.75 ltr per 50 kg bag

Packaging

25Kg and 50Kg

Shelf Life & Storage

Shelf life is 6 months from the date of manufacturing if stored in original and unopened packaging in a cool dry place away from direct sunlight.



Health & Safety Precautions

This products contains cement. And contact with skin may cause irritation. It should not be inhaled, and a properly designed and maintained face mask should be used whilst handling, pouring and mixing the powder. Avoid contact with the product by working carefully, using a barrier cream and wearing protective gloves. If any contact does occur, wash thoroughly with soap and water. Use eye protection. Avoid contact with eyes, if such contact occurs irrigate with water for 20 minutes and seek medical advice. If mistakenly ingested, drink plenty of clean water and seek medical advice. See MSDS for further information.

Instructions

Please note that setting time (initial & final), curing time and compressive strength are related to atmospheric temperature during the time of application. Low temperature will extend the above properties and vice a versa.

Other Products Categories available

Dr. Fixit brings the widest range of Construction Chemicals



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