

Dr. Fixit Unigrout 510



HIGH PERFORMANCE NON - SHRINK GROUT FOR 40 - 200 MM

Description

Dr. Fixit Unigrout 510 is a high performance non-metallic pre-mixed cementitious non-shrink grout for depths between 40 mm and 200 mm. Dr. Fixit Unigrout 510 is non-gaseous, non-corrosive, non-oxidising and is free from chlorides and nitrates.

Typical Applications

- Dr. Fixit Unigrout 510 should be used in all situations where shrinkage is undesirable.
- Under-plate grouting pre-cast concrete, bedding bearing plates, anchor bolt fixing, packing and caulking.

Features

- A non-gaseous grout, free of bleeding and settlement, with long term stability over a wide range of temperatures and humidity's.
- Good adhesive fluidity for easy application in difficult access areas.
- High non-corrosive, bonding to steel and concrete.
- Excellent flow and high early strength characteristics.
- Non-shrink maintains maximum contact with bearing surfaces.

Packaging

25 kg bags

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.
- An abraded or profiled substrate surface is preferable. Metal surfaces should be free from any rust, scaling or paint and abraded to reveal clean, bright metal.
- Seal the formwork joints using a suitable sealant or gun grade adhesive to prevent leakage.
- Mineral surfaces should be thoroughly wetted prior to application for a minimum of 6 hours.

2 APPLICATION

- Dr. Fixit Unigrout 510 should be mixed in a high shear grout mixer for optimum dispersion and workability.
- 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 the water required for the chosen consistency 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.
- For 'Fluid' and 'Flow' consistency (see below), 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.
- Particularly high strengths can be achieved by thorough 'ram' compaction of a 'Drypack' consistency mix of Dr. Fixit Unigrout 510.
- 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.
- Keep the grout below 32°C at all times during application and cure.

Unigrout 510 09/02/17



Technical Information

| PROPERTIES | SPECIFICATION | RESULTS |
|--|-------------------|-----------------------|
| Unrestrained Expansion | | 0.4% |
| Density, Kg/m ³ (Wet) | ASTM C 109 : 1999 | |
| 1 Day | | 31.5 @ 25°C |
| 7 Days | | 72.8 @ 25°C |
| 28 Days | | 81.9 @ 25°C |
| Flexural Strength, N/mm ² , 28 days | ASTM C 580 | 6.1 N/mm ² |
| Tensile Strength, N/mm ² , 28 days | ASTM C 307 | 6.5 N/mm ² |

| Water Requirement for Mix Consistency | Litres per Unit |
|---------------------------------------|-------------------------|
| Fluid | 4 litres |
| Flow | 3.5 - 3.75 litres |
| Plastic | 3 - 3.4 litres |
| Dry-Pack | 1.9 litres |
| Loss of Flow - Final Set: | |
| Flow | 2.5 - 3.0 hours at 20°C |
| Fluid | 3.0 - 3.5 hours at 20°C |

Theoretical Coverage

25 kg bag yields 13.2 litre at fluid consistency
 22 kg/sq.mt at 10 mm

Storage

When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.

Health and Safety

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.



DR. FIXIT offers a wide range of Structural Protection and Waterproofing systems:



WATERPROOFING



CONCRETE & STRUCTURAL REPAIR



CRACKFILL & SEALANTS



BONDING AGENTS



SURFACE PLASTERS



GROUTS & ANCHORS



MORTARS



MARBLE & STONE PROTECTION



PERFORMANCE FLOORING



UNDERLAYMENTS



SPECIALITY CONSTRUCTION PRODUCTS



TILE ADHESIVES & GROUTS



Pidilite MEA Chemicals LLC

PO Box 120657

Dubai, United Arab Emirates

T +971 4 884 9880 F +971 4 884 9879

Web: www.pidilitemea.com

DISCLAIMER The product information & application details given by the company & its agents has been provided in good faith & meant to serve only as a general guideline during usage. Users are advised to carry out tests & take trials to ensure on the suitability of products meeting their requirement prior to full scale usage of our products. Since the correct identification of the problems, quality of other materials used and the on-site workmanship are factors beyond our control, there are no expressed or implied guarantee / warranty as to the results obtained. The company does not assume any liability or consequential damage for unsatisfactory results, arising from the use of our products.