Dr. Fixit Unirepair TRM

THIXOTROPIC REPAIR MORTAR

Description
Dr. Fixit Unirepair TRM is a pre-bagged, fibre reinforced, shrinkage compensated, ready to use structural repair mortar suitable for application up to 30 mm in one pass.

Typical Applications
- Structural repair.
- Repair of structural elements subjected to loading.
- Repairs to reinforced or pre-stressed beams or columns.
- Protection of concrete subject to attack from water containing chlorides and sulphates.
- Repairs in industrial and marine environments.
- Tie hole filler.

Features
- Shrinkage compensated therefore reducing the risk of cracking.
- No primer required.
- Can be trowel applied or spray applied using standard concrete and plaster spraying machine.
- Low rebound.
- Extremely low permeability - gives excellent resistance to attack by aggressive elements.
- Excellent adhesion to steel, reinforcement and to concrete.

Packaging
25 kg

Method of Application

1 SURFACE PREPARATION
- All damaged concrete must be removed and any corroded rebar exposed around its complete circumference.
- Saw cut edges of repairs to ensure a minimum of 5 mm material can be applied.
- All corrosion must be removed from existing rebar using either wet or dry abrasive blasting or wire brushing.
- Severely corroded reinforcement may require replacement; consult Engineer before proceeding.
- The surface of the exposed concrete substrate should be prepared to provide a heavily profiled key.

2 WATER SATURATION
- Thoroughly saturate the surface of the concrete to provide a saturated surface dry condition. Poor quality concrete may require soaking for a significant length of time.
- Any surface water should be removed using an oil free compressed air-jet.

3 MIXING
- Dr. Fixit Unirepair TRM must be mixed mechanically using a suitable, heavy duty slow speed drill with a spiral mixing paddle or a forced action mixer. Mixers attached to spray units such as MP25 Putzmeister are suitable.
- Add 3.5 - 4.0 litres of water into the mixer. Start the mixer and add the Dr. Fixit Unirepair TRM powder. Mix for 3 minutes after all the powder has been added until mortar is homogenous and lump free.
- Add water, if necessary within the limits given, until the required consistency is achieved. Mix for a further 1-2 minutes. The amount of water required will be affected by ambient temperature and relative humidity.
- Dr. Fixit Unirepair TRM can be used when the ambient temperature is between 5 and 50°C. If the ambient temperature is over 30°C, use chilled water and condition the bagged product in an air-conditioned store prior to use. Maximum mixed temperature should be no more than 35°C.
4 APPLICATION
- After mixing, Dr. Fixit Unirepair TRM can be sprayed trowel applied or hand applied.
- When applying by hand it must be forced tightly into the substrate to ensure intimate contact with the pre-wetted substrate.
- Levelling and initial finishing should be carried using a wooden or plastic float.
- Final finishing should be carried out using a steel float.
- When the material has stiffened to the point where finger pressure lightly marks the surface, a final firm trowelling should be given using the steel float.

5 CURING
- Good curing is essential. Particular care is required in hot and/or windy conditions. Curing can either be with a single coat of Dr. Fixit Curing Compound which is compatible with most subsequent protective coatings, or by covering the work with plastic sheet fixed over wet hessian or wet foam rubber.

Technical Information

<table>
<thead>
<tr>
<th>PROPERTIES</th>
<th>SPECIFICATION</th>
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<tbody>
<tr>
<td>Appearance</td>
<td>Grey powder</td>
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<tr>
<td>Plastic Density</td>
<td>Approx. 2200 kg/m³</td>
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<tr>
<td>Compressive Strength</td>
<td>&gt; 45 N/mm² at 7 days</td>
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<td>&gt; 60 N/mm² at 28 days</td>
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<tr>
<td>Tensile Strength</td>
<td>3.5 N/mm² at 28 days</td>
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<tr>
<td>Flexural Strength</td>
<td>&gt; 10 N/mm² at 28 days</td>
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<tr>
<td>Water Addition</td>
<td>Max. 4 litres per bag</td>
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<td>VOC Content</td>
<td>Nil</td>
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</table>

Yield: approx. 13.0 Litres / 25 kg bag

Theoretical Coverage
2.2 kg/mm/sq.m.

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 product 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 Floorings
- Underlayments
- Speciality Construction Products
- Tile Adhesives & Smouts