

Dr. Fixit Unirepair HD



STRUCTURAL CONCRETE REPAIR MORTAR 3 - 50 MM

Description

Dr. Fixit Unirepair HD is a polymer modified concrete repair mortar, containing high quality cements, aggregates, and chemical modifiers. It is suitable for repairs of 3 mm to 50 mm in one pass.

Typical Applications

- For spray or trowel applications.
- Repair of honeycomb, cavities and plugging tie holes.
- Repair of reinforced or pre-stressed concrete elements.
- Repairs in marine environments.
- Can also be used as dry pack mortar of various consistencies by adjusting the water content of the mix.

Features

- Versatile, easy to use, only needs the addition of clean water.
- Sprayable.
- Suitable for use in contact with potable water.
- High carbonation and chloride ion resistance.
- Excellent adhesion to substrate.
- Chloride free.

Packaging

25 kg bags

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 made.
- 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 BONDING

- To ensure an optimal bond either saturate the substrate with water for 24 hours and then remove excess water or use a suitable approved Roff or Rok primer.

3 MIXING

- Dr. Fixit Unirepair HD must be mixed mechanically using either a heavy duty slow speed mixing drill or a forced action mixer. For larger areas a pump spray machine may be used.
- Add water to the container and the Dr. Fixit Unirepair HD and mix for a minimum of 3 minutes until a fully homogeneous mix is achieved.

4 APPLICATION

- The mortar can be applied by pump spray, trowel or by gloved hands ensuring the material makes good contact with the substrate and is well compacted on the primed or saturated substrate and around any reinforcement.
- If building up in layers provide a key by scouring the surface of each layer prior to application of the next.

5 CURING

- As with all cement based materials a good curing regime is essential especially in hot and/or humid conditions. Maintain a wet condition to the applied mortar by spraying with water, covering with polythene or wet hessian for 7 days after application.

Unirepair HD 03/02/17



Technical Information

PROPERTIES	SPECIFICATION
Binder	Ordinary Portland Cement
Colour	Grey
Pack Size	25 kgs
Size of Aggregate	0 - 1.18 mm
Pot Life	1 hour
VOC Content	Nil

Test Results (Water addition of 4 ltrs/25 kg for plastic mortar)

Test Description	Units	Test Method	Age/Days	Average
Compressive Strength	N/mm ²	BS EN 196-1	28	>55
Flexural Strength	N/mm ²	BS EN 196-1	28	>9

Note: the above technical information is based on controlled laboratory conditions. However, there may be some variation in yield and coverage depending on the ambient weather and site conditions.

Theoretical Coverage

A 25 kg bag yields approx. 12 litres of product.

Storage

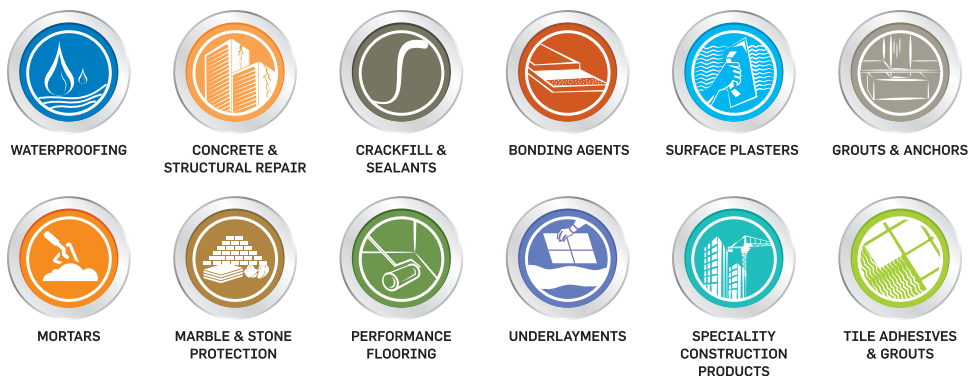
When stored in dry conditions in original unopened packaging this product has a shelf life of 12 months. Storage above 35°C and high humidity (above 50%) will reduce shelf life and product performance.

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.



Pidilite MEA Chemicals L.L.C has wide range of structural protection & Waterproofing systems:



CONCRETE & STRUCTURAL REPAIR

Dr. Fixit Unirepair HD



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