

MARKCHEM ROCKCRETE 280

Single component, non-shrink cementitious free flowing micro-concrete



DESCRIPTION

ROCKCRETE 280 is a fibre reinforced non-shrink free flowing cementitious micro concrete. It can be used in highly reinforced area. The material is based on Portland cement, graded aggregates, fillers and additives which impart controlled expansion characteristics in the plastic state, minimizing water demand. The low water requirement ensures early strength and long-term durability. It also doesn't give separation cracks between old to new construction.

FEATURES / ADVANTAGES

- ROCKCRETE is designed for free flowing in between highly congested reinforcement located in difficult to reach areas
- Reinstatement of large, structural sections of concrete
- Exceptional bond to concrete substrate without independent primer
- Self-Compacting nature eliminates honey combing and displaces air without vibration
- High early strength ensure rapid installation
- Pre-packed to overcome site-batched variations
- No metallic iron is included in the mix that leads to further deterioration due to rust

TYPICAL CHARACTERISTICS

The following values were obtained at water: powder ratio of 0.135 @ 30°C

- Wet Density @30°C : 2.300 kg/m³
- Compressive strength N/mm² tested on 0.75 mm cubes
 - 3 Day : 30
 - 7 Day : 45
 - 28 Day : 60

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- Tensile Strength : 5.0 N/mm² @28 days
- Flexural Strength : > 9.0 N/mm² @28 days
- Free Expansion : Unrestrained Expansion
- Permeability (DIN 1048 Part 5) : < 10 mm

DIRECTIONS FOR USE

SURFACE PREPARATION

The substrate should be cleaned and free from loose materials and contaminations such as plasters, oil, paint and grease. The damaged or deteriorated concrete must be exposed to a sound substrate. The formwork should include drainage outlets for pre-soaking and, if beneath a soffit, provision for air venting. The unrestrained surface area of the repair must be kept to a minimum. Provision for suitable access points to pour or pump the mix in place. The repair concrete substrate should be saturated with clean water prior to placing. Free water should be removed prior to placing. In situation where enhanced bond strength is required to old concrete prime the substrate with MarkChem Super Bond SBR latex depending upon the situation. Consult Technical Department for further information

MIXING

A mechanically power mixer must be used to mix ROCKCRETE. Water is first placed in the mixer followed by gradual addition of ROCKCRETE. Continue mixing for at least 2-3 minutes until a smooth consistency is attained. Use 3.40 liters water per 25 kg bag for a flowable consistency.

PLACING

Place the mix immediately into the formwork by pouring in a continuous operation

COVERAGE

Each 25kg bag yields approx. 12 liters when mixed with 3.38 liters of water. The coverage figures are given are theoretical- due to wastage factors and the nature and variety of possible substrates, practical coverage may vary.

CLEANING OF TOOLS

Tools and equipment can be easily cleaned with water. Skin contact should be avoided as it is slightly acidic & seek medical advice.

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STORAGE AND SHELF LIFE

Store the material in cool and dry place (25⁰C temp). Shelf life is one year when materials are stored in unopened containers as per recommended storage conditions.

PACKING

25 Kg Bag

PRECAUTIONS

As with all chemical products, care should be taken during use and storage to avoid contact with eyes, mouth, skin and foodstuffs. Treat splashes to eyes and skin immediately. If accidentally ingested, seek medical attention. Reseal containers after use. Use in well ventilated areas and avoid inhalation.

DISCLAIMER

The above information and details herein are based on the tests conducted & experience on application and usage. The user is advised to carry out the test and take trials to satisfy on the suitability of the products and meeting his requirement considering the prevailing conditions prior to apply/ using it on larger area. As the conditions under which the products are used or transported are beyond our control. We would not hold ourselves responsible on its consequential nonperformance.