



Rocky Repair HR

Description

ROCKY REPAIR HR is a cement mortar composed of high resistance hydraulic binders, silica sand, selected aggregates, special additives and synthetic fiber. The ready to use blend is supplied in dry powder which requires the addition of clean water only to produce an easily workable mortar with thixotropic effect, fit to be applied vertically in a large thickness.

Use

- Degraded reinforced concrete
- Edges of beams and pillars
- Risers of balconies
- **Terraces**
- **Bridges and Channels**
- Viaducts, dams and tunnels
- Concrete pavements

Advantages

- Excellent adhesion to the old concrete
- Good resistance against Sulphates and damp permeability
- High mechanical resistance both flexure and compression and medium elastic module
- Shrinkage compensating
- Excellent thixotropic behavior, especially suitable for overhead and vertical application

High build achievable without formwork - saves time and expense of multiple applications

Technical Properties

Appearance	grey powder
Density at 25°C	2.1 kg/L
VOC	4.9 g/L
Thickness / coat	10–35 mm vertical / 10-25 mm overhead / 10–100 small pockets & horizontal
Water Absorption (BS 1881 Pt 122)	< 1.8%
Compressive Strength After 7 days / After 28 days (ASTM C579)	42 N / mm² / 50 N / mm²
Flexural Strength After 7 days / After 28 days (ASTM C 580)	5 N / mm ² / 7.5 N / mm ²
Adhesion to concrete at 28 days (BS 1881 Pt 207)	1.8 N / mm ²
Drying Shrinkage at 28 days (ASTM C 157 -93)	< 500 micro strain
Application Temperature	+5ºC to +35ºC
Workability	> 30 min. at











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Mixing

For mixing process, a slow speed drill (200 -300rpm) fitted with a suitable paddle is recommended. Place 4.0-4.5 liters of cold clean water in the mixing bucket. With the drill in operation, add the entire content of the 25 kg bag of ROCKY REPAIR HR while mixing continuously till a uniform lump free consistency mix is achieved. Powder must always be added to water.

Allow the obtained mix to stand for about 3 minutes and then remix before application. Under no circumstances should partial mixing be considered.

Application

Apply the product manually with a trowel or spatula with full compaction, to primed substrate while it is still tacky. The minimum applicable coat thickness is 10mm and the maximum shall be 35mm for vertical and 25mm for overhead sections. For small horizontal sections, the applicable thickness shall be from 10mm up to 100mm Application thickness is dependent on repair size and granulometry. High build applications can be achieved through temporary formwork.

If the application of the second coat is necessary, the previous layer should be cross hatched and allowed to take up its initial set before applying the next coat. Use trowel or sponge for the finishing touch.

Curing

The repaired area shall be cured in accordance with good concrete curing practice and protected from drying winds, sun or excessive heat. Curing shall be done with non-degradable curing compound ROCKY CCAC. Alternatively; a wet hessian cloth covered with polyethylene sheet can also be employed. Curing should begin as soon as final finish is achieved. In fast drying conditions, supplementary curing with Polythene Sheets must be used.

Cleaning

ROCKY REPAIR HR should be removed from tools and equipment and mixers with clean water immediately after use. Cured material should be removed mechanically.

Recommendations

- Do not apply the product at a temperature less than +5°C
- During the peak temperature of the day in the summer season, working area should be covered if work to be executed externally. Use Cold water to mix the product
- In warm weather, store the material in cool place.
- Make sure to use cool water to keep the mixed mortar temperature below 30 °C













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Surface Preparation

Concrete preparation

The surface of the concrete to be repaired should be sound, clean and uncontaminated. The decayed or damaged area to be repaired should be marked with a marker. Cut the marked area to a depth of at least 10mm using a handheld concrete saw or disc grinder to avoid feather edging and to provide a square edge. Break out or chip the complete repair area down to sound base using sharp tools or chipping hammer.

Oil and grease deposits should be removed by stiff brushing, detergent scrubbing duty cleaner/degreaser, steam cleaning.

Steel preparation

Any corroded steel in the repair area must be fully exposed. All exposed reinforcement shall be cleaned of corrosion products by wet grit blasting or other approved means to achieve a clean and bright finish. In case that reinforcing bars, section is reduced due to oxidization, integrate them with additional bar reinforcement.

Coverage

- ROCKY REPAIR HR is supplied in 25
- Yield: 14.0 liters / 25 kg bag with 4.5 liters water addition.

Shelf Life & Storage

The product must be kept in dry and sheltered place, in these conditions its shelf life will be 12 months.

Health & Safety

ROCKY REPAIR HR can be harmful to skin as it contains cement powders which may releases alkalis when mixed with water. During application, wear appropriate protective clothing, goggles, gloves and respiratory equipment if necessary. In case of contact with skin, rinse with water and again wash thoroughly with soap and water. In case of contact with eyes, rinse with plenty of water and seek medical advice accordingly. If ingested, obtain medical attention immediately.

Important Note

The information in this Technical Data Sheet is based on Rocky-SCM Canada's experience. Rocky-SCM does not accept any liability arising from the use of its products as it has no direct or continuous control over where or how its products are applied. All Rocky-SCM Data Sheets are updates on regular basis. It is the user's responsibility to obtain the latest version.

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