

ROCK REPAIR

Multi-Purpose, Economical, Patching and Repair Mortar

PRODUCT DESCRIPTION

ROCK REPAIR is a cementitious, silica fume and polymer containing, one component repair mortar.
Suitable for use in tropical and hot climatic conditions.

USES

For cosmetic or structural repair of deteriorated concrete and mortar.
ROCK REPAIR can be used on exterior or interior, horizontal and vertical applications.

ADVANTAGES

- One component, requires the addition of water only
- Easy to mix, apply and finish
- Excellent adhesion
- Shrinkage compensated
- Compatible with the properties of typical concretes
- Low water absorption, but vapour permeable
- Non corrosive, non-toxic
- Excellent Chloride and Carbonation Resistance

PRODUCT DATA

TYPE

Cementitious, Silica fume, polymer composition

FORM

Grey Powder

PACKAGING

25 kg bag

STORAGE CONDITION

Store in a dry area between 5°C and 35°C. Protect from direct sunlight

SHELF LIFE

12 months minimum from production date if stored properly in original unopened packaging

TECHNICAL DATA

MIXING RATIO

Add 16 -18 % water to the dry powder (4.0 – 4.5 liters of water per 25 kg bag)

POT LIFE

(25°C) Approximately 45 minutes

DENSITY

Fresh mortar approximately 2.0 – 2.1 kg/lt

MECHANICAL STRENGTHS (28 DAYS)

Compressive strength (25°C) ASTM C109 = 40 N/mm²
Flexural strength = 7-9 N/mm²
Adhesion (BS1881 Part 207) > 2.0 N/mm² (concrete failure)

WATER ABSORPTION

< 0.01 ml/m²/sec (BS 1881, part 208)

YIELD

Approximately 14 Litres per 25 kg bag

LAYER THICKNESS

Minimum 5mm Maximum 30 mm per application

TEMPERATURE

Minimum 50C Maximum 400C (substrate)

APPLICATION DETAILS

SUBSTRATE PREPARATION

Substrate must be sound, free from dust, loose particles, cement laitance, curing compounds, oil, grease or any other contamination.

Metal surfaces (steel and iron) should be free from scale, rust, oil and grease.

Pre-wet substrate to a saturated surface dry condition (SSD) prior to application. Avoid puddles and standing water.

MIXING

Pour 4.0 - 4.5 lt. of clean, cold water into the mixing container. Add the ROCK REPAIR powder slowly while mixing continuously for at least 3 minutes and until a homogeneous consistency is achieved. Use low speed electric mixers (max. 500 RPM). By adding the powder slowly and in portions, the desired application consistency can be obtained.

APPLICATION

A bonding agent, Apply ROCK REPAIR while the bonding agent is still wet.

The mortar can be applied by spatula or trowel. For any thickness greater than 30 mm, ROCK REPAIR must be applied in several layers.

As soon as the mortar has started to set it can be smoothed by wooden or synthetic float, Styrofoam block or sponge.

CURING

Where ambient conditions may lead to rapid surface drying, the use of light water fogging for 48 hrs or application of a suitable water based curing compound is recommended.

Do not commence fogging until final set has been reached.

CLEANING

Application and mixing tools should be cleaned with water while the material is still fresh. Hardened material can only be removed mechanically.

REMARKS

- ROCK REPAIR should not be used at temperatures below 5°C.
- At ambient temperatures above 35°C, the material should be stored in the shade and chilled water should be used for mixing.

SAFETY

PRECAUTIONS

Accidental splashes to the skin must be washed off with water and soap.

Accidental splashes to the eyes or mucous membrane must be rinsed with clean warm water. Seek medical attention without delay.

Skin barrier cream, safety goggles and rubber gloves are recommended.

ECOLOGY

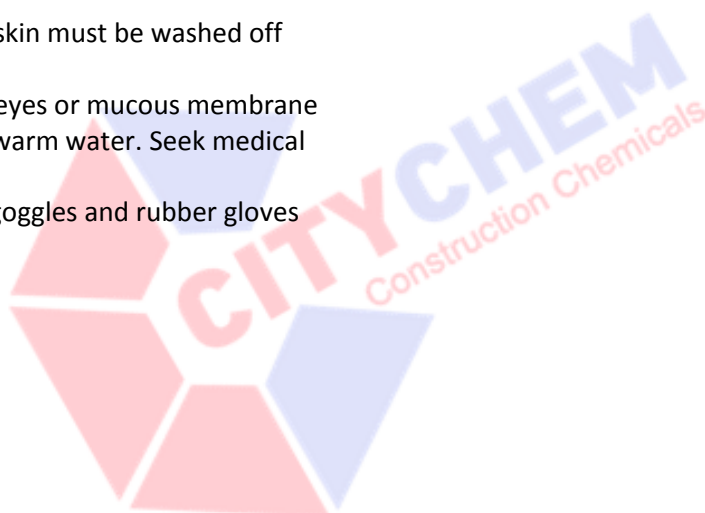
Do not dispose of into water or soil but according to local regulations.

TOXICITY

Non-toxic under the relevant Swiss health and safety codes.

TRANSPORTATION

Non-hazardous.



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CONSTRUCTION