

Rocky Repair 2K

Description

ROCKY REPAIR 2K is a two-component cement-based polymer modified mortar, designed as a high quality repairing and finishing mortar. It is composed of high resistant hydraulic binders, silica, graded high quality aggregates, special additives, and modified by the addition of synthetic polymer latex liquid to produce highly consistent cementitious mortar, with good handling characteristics.

Use

- Concrete repair in general up to 6 mm thickness per coat
- Filling compound to level off irregularities and fill blow holes and fine honeycombs
- Protective coating for concrete against water/chloride ingress, both on new structures and after patch repairs
- Re-profiling over large areas

Advantages

- Easy to mix and apply
- Excellent mechanical strength
- Excellent adhesion to substrate without the need of primer
- Fully compatible with concrete and with all Rocky-SCM cementitious products

- Leveling coats of ROCKY REPAIR 2K have extremely low permeability and provide excellent protection against ingress of salt solutions

Technical Properties

Form Component / Form A Component B	Liquid / Powder
Color Component A / Color Component B	Milky white / Cement grey
Density of Component A at 25°C	1.02 kg/L
Dry Density of Component B at 25°C	1.38 kg/L
Density of wet mix at 25°C	1.85 kg/L
VOC	5.0 g/L
Consistency	Thixotropic paste
Working time at 25°C	35 minutes
Setting time at 25°C	55 minutes
Maximum layer thickness	6 mm per coat
Adhesion to Concrete at 28 days (BS 1881 Pt 207)	>2.0 N/mm ²
Average Linear Shrinkage (ASTM C531)	0.006%
Thermal expansion coefficient	11 x 10 ⁻⁶ / °C

Rocky Repair 2K

Mixing

Both components of ROCKY REPAIR 2K are premeasured for use. Pour component A (Liquid) into a suitable mixing container. Add component B (Powder) to the container. Mix the two components using a slow speed drill (200 – 300 rpm) fitted with a suitable paddle till a uniform lump free homogeneous paste is achieved. Partial mix can be applied if needed provided that the two components are mixed in ratio of 3 (Powder): 1 (Liquid) by weight.

Application

Use a steel trowel for filling pin holes or fine honeycombs. Once the applied mix starts to partially set, trowel the whole surface to obtain a smooth finish. To level off irregularities or as protective coating, apply the mix to the prepared substrates by using a steel trowel for a maximum thickness of 6 mm. If more thickness is required, subsequent coats could be applied at 4 to 6 hours interval, depending on ambient conditions. If a smooth finish is required, spray little water on the final surface and trowel again.

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.

Cleaning

ROCKY REPAIR 2K should be removed from tools and equipment and mixers with clean water immediately after use. Cured material should be removed mechanically.

Recommendations

- The incorporation of latex polymer reduces the tendency of the mortar to lose water and crack under the strains due to drying shrinkage. However, under high temperatures and drying winds, ROCKY REPAIR 2K must be cured with water.
- Do not apply ROCKY REPAIR 2K when the surface temperature is less than 5°C or more than 35°C. During summer season, it is recommended to cover the working area to prevent direct sun effect on the substrate or the applied coat
- Mix enough material that can be applied during the product open wet time

Rocky Repair 2K

Surface Preparation

- All surfaces must be sound, clean, compact, free from dust, grease substances and inconsistent parts. As part of surface preparation it is strongly recommended to expose the fine aggregates of the concrete surfaces by brushing it with a steel brush or light blasting.
- Once the surface is ready, clean with blown compressed air and then saturate the surface thoroughly with clean water. Allow the surface to be in moist condition during the application of ROCKY REPAIR 2K. No excess water on the surface should be allowed.

Coverage

ROCKY REPAIR 2K is packed in 32.50 kg kit consists of 7.5 kg from Component A (Liquid) and 25kg from Component B (Powder).

Yield: ROCKY REPAIR 2K yields 17.5 liters when two components are mixed.

Shelf Life & Storage

Keep the product in a dry covered place into original well closed packaging. In these conditions the product will have a shelf life of 12 months from date of production.

Health & Safety

ROCKY REPAIR 2K can be harmful to skin as it contains cement powders which may release 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 updated on regular basis. It is the user's responsibility to obtain the latest version.