

Fast setting repair mortar specifically designed for the precast concrete industry

Uses

Renderoc Patch is a smooth multi-purpose cementitious-based repair compound, ideal for damaged arris and general reprofiling of 'heavy end' precast concrete units.

Advantages

- No independent primer required – a slurry coat of Renderoc Patch is sufficient
- High early age strength/set
- Single component – mixed with fresh water
- Low slump
- Easily applied by hand or trowel
- Can be darkened or lightened using Renderoc Patch - Darkener or Lightener

Description

Renderoc Patch is supplied as a ready to use blend of specially selected dry powders, which requires only the addition of drinking quality water to produce a highly consistent repair mortar. Where a darker finish is required add Renderoc Patch - Darkener, alternatively for a lighter finish add Renderoc Patch - Lightener: See Application.

Renderoc Patch is designed for arris repairs and reprofiling and can be applied vertically from featheredge up to 30mm thick without slump deformation.

Properties

The following properties were obtained at a water:powder rate of 0.145 and a temperature of 20°C.

Test Method

Working Life	10-15 minutes*
Setting time - workable	20-30 minutes
Fresh wet density	2141Kg/m ³ **
Compressive strength (B.S. 1881, Pt116:1983)	16N/mm ² at 4hrs 24N/mm ² at 24hrs 31N/mm ² at 7 days 37N/mm ² at 28 days

* Note - Working life will depend on the ambient and substrate temperatures.

** Note - Dependent on actual consistency used.

Application Instructions

If aggregate is exposed by damage to the substrate, ensure all loose material is removed. Other finishes will require scabbling or a grit blast in preparation to expose aggregate.

Clean the surface by removing any dust, unsound or contaminated material, oil, grease or algae. Steam cleaning, detergent scrubbing or the use of a proprietary degreaser should remove any oil or grease deposits. Once cleaned the surface shall be saturated surface dry prior to the application of the primer slurry.

To make the primer slurry, combine 1kg of the pre-cast powder with 170g of drinking quality water. This is mixed thoroughly for at least 3 minutes using a trowel. The slurry is then worked into the saturated surface dry substrate by a gloved hand or trowel, ensuring all voids are filled.

Once the substrate has been primed immediately apply the Renderoc Patch 'wet on wet' to the primer. Mix the Renderoc Patch powder to a water powder ratio between 0.14-0.15. Be sure not to mix more powder than can be applied within a 20 minute period. If a darker, or lighter colour is required add Renderoc Patch - Darkener or Lightener up to a maximum ratio of 25 parts of Renderoc Patch to 1 part of Renderoc Patch - Darkener/Lightener. Mix the material by hand or machine until a stiff/no slump consistency is achieved, ensuring the colour is uniform and all particles are well wetted. Once in position allow the material to stiffen slightly before reprofiling with a trowel to the required dimensions.

Low temperature working

In cold conditions below 10°C, the use of warm water (up to 30°C) is advisable to accelerate strength development. Normal precautions for winter working with cementitious materials should then be adopted. The material should not be applied when the substrate and/or air temperature is 5°C and falling. At 5°C static temperature or at 5°C and rising, the application may proceed.

High temperature working

At ambient temperatures above 30°C, the material should be stored in the shade and cool water used for mixing.

Curing

Renderoc Patch is a cement-based repair mortar. In common with all cementitious materials, Renderoc Patch must be cured immediately after finishing in accordance with good concrete practice. The use of Nitobond AR, sprayed on to the surface of the finished mortar in a continuous film, is recommended.

Fosroc® Renderoc Patch

Previously known as Renderoc Precast Patch

In fast drying conditions, supplementary curing with polythene sheeting taped down at the edges must be used. In cold conditions, the finished repair must be protected from freezing.

Precautions

- Only mix enough material to apply within a 20 minute period
- Never add extra water to regain workability once set
- Do not over work the finished surface
- Cool temperatures retard set times
- Warm temperatures accelerate setting times

Cleaning

Nitobond AR, Renderoc Patch should be removed from tools, equipment and mixers with clean water immediately after use. Cured material can only be removed mechanically.

Estimating

Supply

Renderoc Patch: 25kg

Renderoc Patch - Darkener: 16kg

Renderoc Patch - Lightener: 16kg

Yield

Renderoc Patch: 13 ltr mixed material per bag.

Limitations

Renderoc Patch should not be used when the temperature is below 5°C and falling. Exposure to heavy rainfall prior to the final set may result in surface scour. The product should not be exposed to moving water during application or totally immersed in water for the first 24 hours after application. If any doubts arise concerning temperature or substrate conditions, consult the local Fosroc office.

For overhead repairs use the Renderoc HB range of products.

For larger floor repairs in excess of 0.25m² use Paveroc or Patchroc GP.

Storage

Renderoc Patch has a shelf life of 12 months from the date of manufacture if kept in dry storage in the original, unopened bags.

Renderoc Patch - Darkener and Renderoc Patch - Lightener have a shelf life of 18 months from the date of manufacture if kept in dry storage in the original, unopened bags.

If stored at high temperatures and/or high humidity conditions the shelf life may be reduced to less than 6 months.

Nitobond AR should be protected from frost.

Health and safety

For further information refer to appropriate Product Safety Data Sheet.

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Important note

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