



Patchroc

Medium fast setting concrete patching compound

Uses

Patchroc has been specially designed to provide a fast set repair in concrete floors and pavements and is particularly useful where traffic must be kept flowing with minimum down time.

Patchroc will be of particular interest to industrial maintenance engineers, transport managers, airport authorities or anywhere that pot holes in concrete cause a hazard to pedestrian and wheeled traffic.

Advantages

- Medium Fast setting - Minimum disruption to traffic
- Easy to use - Needs only the addition of water.
- Easy to lay - Very easy to apply and finish
- Non shrink - Does not crack
- High adhesion - Use Nitobond AR as primer ensures good bonding to concrete substrates.
- Durable & Tough surface - Resistant to wear and tear

Description

Patchroc is supplied as a pre-blended dry powder to which water is added to produce an easily trowellable mortar. Patchroc is a blend of inorganic cements, additives to modify and control the rate of setting and strength gain, with selected hard wearing aggregates. Patchroc does not contain calcium chloride.

Patchroc has been designed for the patching of small areas of concrete i.e., individual patches requiring not more than 12.75 litre yield per 25kg bag of Patchroc.

The blend of cements eliminates shrinkage with the consequent reduction of stress at the bond line. Long lasting adhesion is ensured by the use of Nitobond AR bonding agent.

Technical support

Fosroc offers a technical support service to specifiers, end users and contractors as well as unrivalled onsite technical assistance in locations all over the world.

Properties

Typical Properties at 30°C

Pot life	10 min
Setting time	20 min
Traffic Time :	
Vehicular	12 hours
Pedestrian	2 hours
Compressive strength (N/mm ²) at 30°C	
2 Hours :	15
1 Day :	40
28 Days :	55
Mixed density	2.20 g/cc

Application instructions

Before using any repair material Fosroc recommends that the reason for the failure be diagnosed by a suitably qualified authority.

Surface preparation

Successful repairs to concrete depend totally on correct surface preparation. Particular care should be taken to ensure all surfaces are completely free of laitance, oil, dust, grease, plaster, paint, corrosion and any other deleterious substances. Laitance should be mechanically removed by high pressure water blasting, grit blasting or a combination of both. Oil and grease deposits, should be removed by steam cleaning or detergent scrubbing, or with use of a proprietary degreaser. Smooth surface should be mechanically roughened by scrubbing or needle gun to form a good key. All reinforcing steel must be grit blasted to a profile of SA 2 1/2 prior to the application of Nitozinc Primer.

Edges of the areas for repair must be saw cut to 12mm to avoid feather edging. Finally the complete area should be blown clean with oil free compressed air.

Patchroc may be used from a minimum of 12mm to a maximum of 50mm thick. If the depth of the pot hole is greater than 50mm, individual layers should be scratch keyed and allowed to set for a minimum of 2 hours before priming and placing the next layer.

Priming

All surfaces must be primed prior to repair. Before priming, the substrate should be thoroughly soaked with clean water and any excess shall be removed from the surface preferably by oil free compressed air. Concrete must be primed with Nitobond AR.

Nitobond AR should be scrubbed into the surface of the concrete. Patchroc should be applied to the primed surface as soon as possible after mixing, ideally with the primer having been allowed to become tacky.

Mixing

Patchroc must be mixed in a forced action mixer or alternatively with a slow speed drill (500 rpm) fitted with a spiral paddle.

The mixing ratio of Patchroc is 25 kg of powder to 3.25 litres of water.

The recommended amount of water should be put into the container and the contents of the Patchroc bag be added. The mixing time should be atleast 3 minutes to allow smooth lump free consistency. Do not delay in placing the mixed material, otherwise the available working life will be reduced. In general it is recommended that only 1 bag be mixed at any one time to ensure that Patchroc is placed within its pot life.

Application

Place the mixed material evenly over the primed surface and

Patchroc

tamp in place with a wooden float to ensure full compaction. Strike off the surface to the correct level and finish with a steel trowel, to fully close the surface.

Curing

Patchroc requires curing in accordance with good concrete finish. Protect the surface from heavy rainfall to prevent surface scour.

Cleaning

Patchroc should be removed from tools with water immediately after use. Cured material can only be removed mechanically.

Estimating

Packaging

Patchroc	25 kg bags
Nitobond AR	1, 5 & 20 litre containers

Coverage and yield

Patchroc when mixed with recommended quantity of water will yield 12.75 litres of mixed material.

Nitobond AR covers 6 - 8 m² / litre depending on porosity and texture of substrate.

Storage

Shelf Life

Shelf life of 6 months in unopened bags if kept in a dry store.

Precautions

Health and safety

Patchroc and Nitobond AR should not come in contact with skin and eyes or be swallowed. Patchroc is alkaline. Avoid inhalation of dust while mixing Patchroc. The use of protective clothing, gloves, goggles and barrier cream is recommended. A dust mask should be used when handling Patchroc powder. If contact with skin occurs wash thoroughly with plenty of clean water. If irritation persists or if swallowed, seek medical attention immediately. Do not induce vomiting.

For further information refer to the appropriate Product Safety Data Sheet.

Fire

Patchroc and Nitobond AR are non flammable.

Additional information

Fosroc manufactures a wide range of products specifically designed for the repair and refurbishment of damaged reinforced concrete. This includes repair mortars, fluid microconcretes, chemical resistant epoxy mortars in addition to comprehensive package of protective coatings. In addition, a wide range of complementary products are available. This includes joint sealants, waterproofing membranes, grouts and anchors and specialised flooring materials.

*Separate data sheets are available on these products.



Fosroc Chemicals (India) Pvt. Ltd.

Head Office
Embassy Point, No. 150,
2nd Floor, Infantry Road,
Bangalore 560 001,
Karnataka

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telephone	fax	e-mail
+91 80-42521900	+91 80-22281510	enquiry.india@fosroc.com

Regional Offices

Chennai

Hills Centre, Old No 5,
New No 9, 3rd Cross Street,
Jeth Nagar, Raja Annamalaipuram,
Chennai 600 028.
Ph: 9500064795

Mumbai

MBC Park, 12th floor, Office No.12B,
'D' Block, Near G Corp/Hyper City
Kasarwadawali, Ghodbunder Road,
Thane (West) 400 615
Ph: +91 22 6229 6800

Noida

Unit No. 601, Highway Tower-II
A-13/2, 6th Floor, Sector- 62
Gautam Buddha Nagar,
Noida 201 309, Uttar Pradesh
Ph: +91 120 6121900
Fax: 0120-4270622

Kolkata

304, Jodhpur Park
Kolkata 700 068
Ph: +91 33-65343188
Fax: 033-2499-0278