



# 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 & 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 12.6 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

A technical advisory service is available for onsite assistance in the use of Fosroc product range.

### Properties

Typical Properties at 30°C	
<b>Working life</b>	20 min
<b>Setting time</b>	40 min
<b>Traffic Time</b>	
<b>Vehicular</b>	12 hours
<b>Pedestrian</b>	2 hours
<b>Compressive strength (N/mm<sup>2</sup>) at 30°C</b>	
12 hours	10
3 days	30
7 days	40
<b>Mixed density</b>	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 scabbling or needle gun to form a good key. All reinforcing steel must be grit blasted to a profile of SA2<sup>1/2</sup> 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.

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## 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 2.75 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 at least 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 working life.

## Application

Place the mixed material evenly over the primed surface and 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 12.6 litres of mixed material.

Nitobond AR covers 6 - 8 m<sup>2</sup> / 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 & 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.

### Fire

Patchroc and Nitobond AR are non flammable.



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### Important note :

Fosroc products are guaranteed against defective materials and manufacture and are sold subject to its standard terms and conditions of sale, copies of which may be obtained on request. Whilst Fosroc endeavours to ensure that any advice, recommendation specification or information it may give is accurate and correct, it cannot, because it has no direct or continuous control over where or how its products are applied, accept any liability either directly or indirectly arising from the use of its products whether or not in accordance with any advice, specification, recommendation or information given by it.



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