



Patchroc

Fast setting concrete-patching compound

Uses

Patchroc mortar has been specially designed to provide a very fast set repair in concrete floors and pavements and is particularly useful where traffic must be kept flowing. Patchroc mortar will accept pedestrian and vehicular traffic in 2 hours.

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

Advantages

- **Fast setting** - Minimum disruption to traffic
- **Easy to use** - Needs only the addition of water.
- **Easy to lay** - Trowel applied
- **Non shrink** - Does not crack
- **High adhesion** - Ensures good bonding to substrate
- **Durable** - Tough surface - resistant to wear and tear

Description

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

Patchroc mortar has been designed for the emergency patching of small areas of concrete i.e., individual patches requiring not more than 12 litre yield per 25kg bag of Patchroc mortar.

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

Working life	10 minutes		
Setting time	20 minutes		
Traffic Time			
Vehicular	2 hours		
Pedestrian	2 hours		
Compressive strength (N/mm²) at 30°C			
2 hours	1 day	3 days	28 days
15	40	50	55

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 laitence, oil, dust, grease, plaster, paint, corrosion and any other deleterious substances. Laitence 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 the 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 SA2^{1/2} prior to the application of Nitoprime Zincrich 90..

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 mortar may be used from a minimum of 12mm thick 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 1 hour 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 removed from the surface preferably by oil free compressed air. Concrete must be primed with Nitobond AR, bonding agent.

Nitobond AR bonding agent is an acrylic emulsion which is scrubbed into the surface of the concrete. Patchroc mortar 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 mortar must be mixed in a forced action mixer or alternatively with a slow speed drill (500 rpm) fitted with a spiral paddle. Free fall mixers must not be used.

The mixing ratio of Patchroc mortar 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 mortar bag be added. The mixing time should be 2 to 3 minutes to allow smooth lump free consistency. Do not mix for longer than 3 minutes or 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 mortar is placed within its working life.

Application

Place the mixed material evenly over the primed surface and tamped 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.

If a textured finish is required this can be done with a roller or sweeping brush.

Curing

Patchroc mortar requires curing in accordance with good concrete practice.

As soon as trowelling has been completed, Concure WB shall be applied as curing membrane.

Protect the surface from heavy rainfall to prevent surface scour.

Cleaning

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

Estimating

Packaging

Patchroc mortar 25 kg bags

Nitobond AR 1,5 & 20 litre containers

Concure WB 5,20 & 200 litre containers

Coverage and yield

Patchroc mortar when mixed with recommended quantity of water will yield 12 litres of mixed material.

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

Storage

Shelf life

6 months in unopened bags if kept in a dry store. In humid locations the shelf life may be reduced to 3 - 4 months.



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Precautions

Health & Safety instructions

Patchroc mortar and Nitobond AR bonding agent should not come in contact with skin and eyes or be swallowed. Patchroc mortar is alkaline. Inhalation of dust should be avoided while mixing Patchroc mortar. The use of protective clothing, gloves, goggles and barrier cream is recommended. A dust mask should be used when handling Patchroc mortar powder. If contact with skin occurs, it shall be washed thoroughly with plenty of clean water. If irritation persists or if swallowed, medical attention shall be sought immediately. Vomiting should not be induced.

Fire

Patchroc mortar and Nitobond AR are non flammable.

Additional information

The Fosroc range of associated products includes high strength cementitious, epoxy grout, polyester resin based mortar for rapid presetting of steel shims to level or for direct bedding of small base plates; Resin anchoring systems for same day anchoring of bolts in drilled holes in concrete or rock. Also available a range of products for use in construction; viz., admixtures, curing compounds, release agents, flooring systems and repair mortars.

Separate datahsheets are available on these products.



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