

PROXON PATCHREP FR

PROXON PATCHREP FR is a fiber-reinforced, polymer-modified cementitious repair mortar for vertical/inverted surfaces, offering smooth, shrinkage-free, water-resistant finishes.



What

PROXON PATCHREP FR is a single-component, fiber-reinforced cementitious repair mortar ideal for vertical and overhead applications. It provides high build, shrinkage-free repairs up to 50mm, offering smooth finish, strong adhesion, and water resistance.

Why?

- Premixed powder only
- Add water onsite
- High bond strength
- Durable, weatherproof, non-slumping
- Resists carbonation attack
- Chloride attack resistant

Usage

Repair of damaged, weak, honeycombed or cracked concrete on horizontal, vertical, and overhead surfaces. Ideal for patchwork and replacing spalled, chipped, or chemically attacked concrete exposed to chlorides or sulphates.

How to use?

- Prepare sound surface
- Remove loose materials
- Clean exposed steel
- Prime with Bonding agent
- Apply mortar mix
- Cure and clean

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Application

Surface Preparation:

Ensure the concrete surface is sound and uncontaminated. Saw cut damaged areas with square edges and remove loose material using suitable tools. If reinforcement is corroded, fully expose and clean it to a bright metal finish.

Priming:

Clean steel using **PROXON RUST RC** or grit blasting and coat with **PROXON ZINC RP** (zinc-rich epoxy primer). For chloride-damaged concrete, use an epoxy bonding coat. For general priming, apply **PROXON SBR** for improved adhesion.

Mixing:

Use hand or mechanical methods. Add **PROXON PATCHREP FR** powder slowly into clean water and mix until smooth. Adjust consistency as needed.

Placing and Finishing:

Apply the mix over tacky primer using a trowel or gloved hand. Thickness up to 40 mm in one pass. Use formwork for high

build; cross-hatch previous layers before recoating.

Curing:

Protect against rapid drying using plastic sheets or curing compounds.

Cleaning: Wash tools with water immediately after use.

Packing

25 kg bags.

Shelf life

Can be stored in a cool, dry place away from direct sunlight and moisture. Shelf life is up to 12 months in unopened condition.

Safety Measures

PROXON PATCHREP FR contains no hazardous substances but avoid contact with skin and eyes. Use gloves and goggles. In case of contact, wash immediately. If swallowed, seek medical help. Refer MSDS for detailed safety information.

Physical Properties

Colour and appearance	Grey powder
Density (apparent)	1.8
Compressive strength (ASTM C 579)	43.9N/mm ² @28 days
Flexural strength (ASTM C 307)	5N/mm ² @28 days
Tensile strength (ASTM C 307)	3.71N/mm ² @28 days
Bond strength (BS 6319)	Less than 4N/mm ² @28 days

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Water absorption (ASTM C 413)	0.95%
Pot life at 25°C	30 minutes
Recommended application thickness	10-50mm/layer
Standards	ASTM C-387:77 A DIN 1048 & DIN 1045 class 8-35

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