

PRB TP RÉPAR R2

QUICK SETTING FIBRED MORTAR FOR CONCRETE REPAIRS



The PRB TP RÉPAR R2

- Quick setting and drying fibred mortar for the manual repair of concrete structures
- Application possible in large thicknesses up to 100 mm in limited areas
- Profiling and bonding in swimming pools
- Smooth finish

PACKAGING

- 25 kg paper bag.
- 1.2 t pallet, i.e. 48 25 kg bags.

STORAGE: 12 months.

CONSUMPTION

As an indication: 2 kg/m²/mm of thickness.

COLOUR: Grey.



Class R2 as per EN 1504-3



AREA OF USE

USE

- PRB TP RÉPAR R2 is used on walls, ceilings and floors, both exterior and interior
- Interior or exterior, in-ground or submerged structures.
- Non-structural localised concrete repairs.
- Refilling of chases, passive cracks, coring, form panel holes, splinters, nosing.
- In-ground walls, tanking (grooves, slope-forms).

- Unloading docks, warehouses, industries with covering suitable for the use.

AUTHORISED SUBSTRATES

- Concrete.
- Strong render.
- Concrete block, solid brick or hard stone masonry.

PROHIBITED SUBSTRATES

Do not use on substrates that are:

- Plaster.
- Painted or covered with organic products (to be completely eliminated by rubbing down).
- Crumbling or weak (cellular concrete).
- On industrial floors or floors with heavy traffic that are not covered with suitable coverings.

APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply on substrates that are frozen or thawing, hot or exposed to full sunlight, soaked or exposed to driving rain and heavy winds. Do not apply if there is a risk of freezing in the next 24 h.

TECHNICAL CHARACTERISTICS

COMPOSITION

- Special hydraulic binders, quartz sands, fibres, resins and additives.
- Grading: 0/1 mm.
- Apparent density of the powder: 1.4 t/m³.

PERFORMANCES

Compliant with the EN 1504-3 standard class R2

- Adherence on concrete: ≥ 0.8 MPa.
- Pot life: 20 to 30 min
- Floating time: 25 min

- Release time: 2 to 3 h
- Time before covering:
 - Bonded tiling: 48 h.
 - Mortar render: ≥ 7 days.
 - Paint, TPC (DTU): 28 days.

These values are standard laboratory testing values determined using applicable technical guides. The preparation conditions may modify them significantly. The times indicated at 20°C are extended at lower temperatures and shortened at higher temperatures.

PREPARATION

SUBSTRATE PREPARATION

- Substrate preparation
The substrate must be hard, cohesive, rough, clean and free of dust.
- Sound the substrates to be repaired using a hammer and eliminate defective parts using a pick (hollow-sounding, non-adherent, blown, etc.).
- Chip off the damaged concrete coating rusted rebar sections up to the healthy concrete, i.e. alkaline and free of chloride.
- Remove the concrete to a depth of 3 to 4 cm to eliminate carbonated concrete, the cavity edges should be sharp to avoid cracking around the repairs.
- Chases: open each chase to obtain a minimum 1 cm square or triangular section of a depth \geq the width.

TREATING REBARS CONSIDERED HEALTHY

- Completely clear the reinforcements, including to the rear, to a depth of 1 to 2 cm.
- The healthy parts of the rebar at the top, bottom and sides must also be cleared and laid bare.
- Deoxidise the rebars using a suitable method until "white metal" is obtained, then protect it immediately.
- Treat the rebars by generously coating using a slurry composed of 50 % PRB TP RÉPAR R2 (or pure cement) mixed with 50% pure PRB LATEX resin.
- The first application of PRB TP RÉPAR R2 must occur as soon as the slurry stiffens.

WETTING

Thoroughly wet the areas to be repaired beforehand and leave to dry (the substrate must be wet but not dripping).

ADHERENCE REINFORCEMENT

If necessary, after preparation, mix a slurry of PRB TP RÉPAR R2 mixed with a PRB LATEX resin solution + water of 1/3 resin and 2/3 water, i.e.:
 • 0.4 L PRB LATEX + 0.8 l of water for 5 kg
 • 2 L PRB LATEX + 4 l of water for 25 kg
 * Slurry pot life: ± 1 h.
 Spread the slurry on the concrete to about 2 mm using a wide brush, then apply PRB TP RÉPAR R2 mortar as soon as the slurry stiffens and before it hardens.

PRODUCT PREPARATION

Mix the PRB TP RÉPAR R2 with potable water in a clean container:
 • 0.8 to 0.9 L per 5 kg bag,
 • 4 to 4.5 L per 25 kg bag.

APPLICATION

PRB TP RÉPAR R2 is applied in successive applications from 5 to 50 mm thick.
 • Fill cavities and compact the mortar well so that it adheres.
 • Wait for the 1st application to stiffen before applying the next.
 • Profiling: cut the excess using a trowel edge or a level.
 • Smooth using a smoother or finish by floating using a plastic or hard polystyrene float.

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Refer to the regulatory labels on the packaging and to the safety data sheet before use.
- Comply with applicable regulations.