

PRB TP RÉPAR R2

QUICK-SETTING FIBRE-REINFORCED FINE MORTAR FOR REPAIRING CONCRETE



The **+**s of PRB TP RÉPAR R2

- +** Surface repairs, profiling and sealing in swimming pools
- +** Rapid setting and hardening
- +** Can be applied in thick layers: 5 to 100 mm
- +** Extremely high compressive strength and flexural strength.
- +** Smooth finish



PACKAGING

– Paper bag containing 25 kg.

STORAGE LIFE: 12 months.

CONSUMPTION/USE

As a guide: 2 kg/m²/mm of thickness.

COLOUR: Light grey.



AREA OF USE

USES

- PRB TP RÉPAR R2 can be used on walls, ceilings and floors - suitable for indoor & outdoor use.
- Localised non-structural repairs to concrete (hidden reinforcement bars).
- Filling grooves, passive cracks, holes, chips, spalling and stair nosings.
- Underground walls and casings (grooves, slopes).

SUITABLE SUBSTRATES

- Concrete.
- Resistant coatings.
- Concrete block, solid brick and hard stone masonry.

PROHIBITED SUBSTRATES

Do not use on:

- Plaster.
- Surfaces covered with paint or organic products (to be completely removed by sanding).
- Crumbling or weak surfaces (aerated concrete).
- Industrial floors.

APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply to frozen, thawing, hot or damp surfaces. Do not apply to surfaces in full sunlight or during heavy rain and strong winds. Do not apply if there is a risk of frost or freezing temperatures within the next 24 hrs.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Specialist fluid binders, quartz sands, fibres, resins and additives.
- Grain size: 0/1 mm.

PRODUCT

POWDER

- Bulk density of the powder: 1.4 t/m³.

PASTE

- Manipulation time (workable life of the mix): 20 to 30 mins.

- Setting time:

Temperature	Starts to set	Completely set
at 20°C	1.5 hrs	2.5 hrs

- Workable time - trowelling: 25 mins.
- Waiting time before removing shuttering/formwork: 2 to 3 hrs.

Performance when hardened Class R2 in accordance with EN1504-3

- Mechanical strength in MPa in accordance with EN12190.

Strength	after 24 hrs	7 days	28 days
Flexural	3.5	6	8
Compressive	15	20	25

- Adhesion to concrete: ≥ 0.8 MPa.
- Waiting time before covering/coating:
 - Glued tiles: 48 hrs.
 - Mortar rendering: ≥ 7 days.
 - Paints and thick paint coatings (DTU): 24 to 72 hrs, depending on the ambient conditions and the thickness applied.

These values are estimates based on laboratory tests carried out in accordance with the applicable technical guidelines. The application conditions can significantly change these values. These times are based on an ambient temperature of 20°C. They will be longer at lower temperatures and shorter at higher temperatures

UTILISATION

SUBSTRATE PREPARATION

- Substrate preparation
 - The substrate must be hard, adherent, rough, clean and free from dust.
- Tap the surface to be repaired with a hammer and remove any damaged areas (hollow, loose, delaminated, etc.)
- Remove the damaged concrete around the rusted steel until you reach sound concrete (alkaline and free of chloride).
- Remove the carbonated concrete to a depth of 3 to 4 cm. Ensure the edges of the hole are clean and smooth to avoid cracking around the edges of the repair.
- For grooves: open each groove to create a square or triangular section of at least 1 cm wide, with a depth equal to or less than the width of the groove.

APPLYING TO SOUND STEEL REINFORCEMENTS

- Completely expose the reinforcement bar(s), including the reverse side, to a depth of 1 to 2 cm.
- The sound parts of the steel at the top, bottom and sides should be cleared and exposed.
- Remove any rust from the bars using a suitable method and then apply a protective coating to the bars.
- Using a brush, apply a mixture of 50% PRB TP RÉPAR R2 (or pure cement) mixed with 50% pure PRB LATEX resin and spread well over the concrete.
- The 1st layer of PRB TP RÉPAR R2 can be applied as soon as the mixture has hardened.

MOISTENING THE SUBSTRATE

Thoroughly moisten the areas to be repaired beforehand and leave to dry (the surface should be damp but not dripping wet).

FOR IMPROVED ADHESION

If necessary after preparation, apply a bonding slip of PRB TP RÉPAR R2 and a PRB LATEX resin + water solution to the areas to be repaired. For example:

- 0.4 L of PRB LATEX + 0.8 L of water for 5 kg
- 2 L of PRB LATEX + 4 L of water for 25 kg

* workable life of the bonding slip: ± 1 hr. Apply the bonding slip to the concrete in layers of approximately 2 mm thick using a brush or wide paintbrush, then apply PRB TP RÉPAR R2 as soon as the bonding slip becomes firm but before it is has completely set.

PRODUCT PREPARATION

- Mix PRB TP RÉPAR R2 with clean water in a clean container:
- 0.8 to 0.9 litres per 5 kg bag.
- 4 to 4.5 litres per 25 kg bag.

APPLICATION

Apply PRB TP RÉPAR R2 in successive layers of 5 to 100 mm thick.

- Fill any cavities and press the mortar firmly into place.
- Wait until the first layer has hardened before applying the next.
- Profiling: trim any excess with the edge of the trowel or a straight edge.
- Smooth with a smoothing trowel or float, or finish with a hard polystyrene or plastic finishing trowel.

PRECAUTIONS FOR USE

- Contains cement and/or lime.
- Please read the packaging safety label and safety data sheet before use.
- Please respect the applicable regulations.