

PRB CHAPECEM N

READY-TO-USE MORTAR FOR SEMI-QUICK-SETTING SCREEDS



The +s of PRB CHAPECEM N

- + Tiling or waterproofing after 24 hrs
- + Compatible with screed pumps
- + Shrinkage-compensated
- + Ideal for balconies and walkways

PACKAGING

– 25 kg paper bag

STORAGE LIFE: 12 months.

CONSUMPTION/USE

As a bonding slip - per m²:

Bonding slip of PRB CHAPECEM N; 2 to 3 kg:

- PRB CHAPECEM N mortar: 3 kg
- PRB LATEX resin: 0.240 to 0.300 L

PRB CHAPECEM N mortar, per m²: 20 to 22 kg/m²/cm of thickness.

COLOUR: Grey.



Suitable for P4S floors

CSTB technical notice:
13/18-1405 V2



AREA OF USE

USES

- Interior floors in all areas subject to moderate or heavy traffic: class P2 to P4S, such as homes, garages, offices, shops and supermarkets.
- Outdoor floors in loggias, balconies, walkways.
- **New and renovation work and outdoor flooring:** please contact us before use.
- CSTB Technical Notice n° 13/18-1405.
- French DTU Standards, Technical Specifications & regulations in force.
- **Screed solutions (see table):** Ensure that all separation strips are installed and all preparation work is carried out in accordance with the French DTU standards 26.2 and 52.10.
- Other uses: underlaying/mortar beds - see DTU. In order to guarantee the correct performance of **PRB CHAPECEM N**, do not add cement or other additives (plasticisers, super-plasticisers, inhibitors or anti-freeze) and use the correct quantity of water, as indicated below.

SUITABLE SUBSTRATES

- Resistant, adherent, stable substrates suited to the use of the premises:
 - solid concrete slab,
 - solid concrete floor or with concrete topping slab,
 - cement mortar screed bonded to concrete,
 - drainage sheet.
- Other substrates: please contact us before use.

LIMITS OF USE

This product should not be applied as a bonded screed on top of:

- Crumbling or loose surfaces.
- Anhydrite screeds, wooden floors, lightweight concrete or mortar.
- Old plaster-based levelling products.
- Old synthetic tiles.
- Underwater floors.
- Substrates with active cracks.

APPLICATION CONDITIONS

- Between 5°C and 35°C.

TYPE OF WORK	Possible thicknesses		
	Bonded screeds on a fresh bonding slip	Floating screeds on insulation (excluding underfloor heating)	Unbonded screeds on polyethylene film
Private or communal premises up to class P3	• 15 to 100 mm * locally: 10 mm Min. thickness in line with the drain: 5 mm	• 35 to 100 mm	• 35 to 100 mm
Areas subject to heavy traffic, P4 / P4S	• 30 to 100 mm Min. thickness in line with the drain: 15 mm	Prohibited	• 50 to 100 mm
	Bonded screeds on a fresh bonding slip		Unbonded screeds on drainage sheeting (DTU 52.1)
Exterior floors	• 10 to 100 mm Min. thickness in line with the drain: 5 mm		• 50 to 100 mm with reinforcement mesh

- Do not apply to frozen or thawing substrates, soaked substrates, or substrates exposed to capillary action (rising damp) or high temperatures. Do not apply in strong winds.

TECHNICAL CHARACTERISTICS

INGREDIENTS

- High-performance fluid binders and specific additives.
- 0.3 mm siliceous sand.

POWDER

- Colour: grey.
- Density: 1.6 ± 0.1 t/m³.

TYPICAL PERFORMANCE OF PRB CHAPECEM N

- Density of the mixture: 2 to 2.2.
- Compressive strength after 48 hrs: ≥ 20 MPa.
- Compressive strength after 28 days: ≥ 30 MPa.
- Residual moisture after 48 hrs: ≤ 2%.

- Class - according to EN 13813: CT - C30 - F6.
- Reaction to fire: A1_{fl}.

- Shrinkage: ≤ 0.8 mm/m.

DOSAGES

Rework or bonding slips	
PRB CHAPECEM N	25 kg
Water	2,25 l
PRB LATEX resin	2,25 l
Screed mortar	
PRB CHAPECEM N	25 kg
Water *	2 to 2.5 l

UTILISATION

- Manipulation time (workable life of the mix): 60 ± 30 mins.
- Workable time - trowelling: 20 to 30 mins.
- Ready to walk on after (light traffic): 24hrs.
- **Waiting time before applying floor coverings:**
 - tiling and carpeting: 24 hrs,
 - levelling before laying flexible flooring: 24 hrs,
 - laying PVC: 72 hrs,
 - laying parquet: 7 days,
 - floor paint: 21 days.

NB: These values are estimates based on laboratory tests. The application conditions can significantly change these values.

UTILISATION

Please refer to the PRB Process Sheets

SUBSTRATE PREPARATION

- Surfaces must comply with the reference DTU (26.2 et seq.) and be suitable for their intended use. For renovation work, please refer to the preliminary ground survey (Technical Specification 3529 v4 & 3530 v4).
- **Checking and Cleaning**
 - The surface must be structurally sound, adherent, solid, dry and free of cracks or rising damp.

FOR BONDED SCREEDS:

- Remove all traces of plaster, varnish, wax, surface laitance, etc. by sanding or scraping.
- Remove all products that may limit adhesion by shot blasting or sanding: curing products, surface hardeners, floor treatments (wax, water repellents, oil repellents, etc.), oils and greases, etc. until you obtain a clean, sound cement substrate.

- Then remove any dust by brushing and vacuuming.
- Pipes must be embedded in an underlay of **PRB MANUCEM N** or **PRB CHAPECEM N** (see French DTU 26.2 and 52.10).

Bonding slip for bonded screed:

- Prepare a bonding slip using the following proportions:
 - 4 volumes of **PRB MANUCEM N**
 - 4 volumes of 0.2 mm sand
 - 1 volume of **PRB LATEX resin**
 - 1 volume of water

Bonding slip variant: PRB CHAPECEM N mortar mixed to a "bonding slip" consistency with a 50/50 mix of water + PRB LATEX resin.

- Apply the bonding slip as you go so that the screed is applied to the fresh slip. (Manipulation time (workable life): ± 30 min; remix from time to time).

FOR UNBONDED SCREEDS:

All preparation work and separation strips must comply with the DTU standards 26.2/52.10.

MIXING PRB CHAPECEM N

The mortar can be mixed using a concrete mixer or a shovel.

- Use approximately 2 to 2.5 l of water per 25 kg bag.
- Carefully and quickly mix **PRB CHAPECEM N** with the water for a maximum of 3 to 4 min. Use the recommended quantity of water throughout the work.
- The manipulation time of the mix is 60 ± 30 mins
- **Apply immediately.**
- Clean tools (concrete mixer, shovel, etc.) before the mortar hardens.

APPLICATION

- Quickly mark levels and slopes, then spread the screed, tamp it and level it. Finish by trowelling within 15 minutes, taking into account the manipulation time (20-30 mins).
- If work is to be stopped for more than an hour, leave a strip of uncoated reinforcement mesh protruding

from the mortar or place a 1-m strip of 50 x 50 mm metal reinforcement mesh (50 cm coated, 50 cm protruding) in the fresh mortar.

- When resuming work, apply a bonding slip to the edge of the screed.
- It can be transported using a screed pump.

For technical joints

- Leave a peripheral joint of 3 to 10 mm wide; apply a strip of foam (e.g. ISOL 100 PRB) or polystyrene.
- Recreate existing expansion joints using suitable commercially available profiles.
- Dividing the surfaces: to be adapted according to the work (see the DTU).

PRECAUTIONS FOR USE

- Contains cement.
- Please read the packaging safety label and safety data sheet before use.