

# PRB PLANICHOC

## QUICK-SETTING FLUID MORTAR FOR REPAIRING AND LEVELLING FLOORS



### The +s of PRB PLANICHOC

- + **Very fine finish**
- + **Thickness: 10 to 250 mm**
- + **Shrinkage-compensated**
- + **High resistance to abrasive wear**
- + **Ready to mix**



EN 1504-3 Class: R4  
EN 13813 Class: CT-C40-F5  
Suitable for P4S floors



#### PACKAGING

– Paper bag containing 25 kg

**STORAGE LIFE:** 12 months.

#### CONSUMPTION/USE

As a guide: 1.9 kg/m<sup>2</sup>/mm of thickness.

**COLOUR:** Grey.



## AREA OF USE

### USES

- Interior floors: P2, P3, P4 and P4S class floors (on new or exposed cement floors).
- Exterior floors.
- Repairing and filling in concrete floors and slabs (holes, grooves, etc.).
- Restructuring and reshaping damaged structures: slabs, balconies, etc.
- Thick levelling compounds and fluid mini screeds.
- Filling dormant cracks.

- Agricultural installations (slurry pits, stables and barns, storage areas, etc.).
- Utility rooms: please contact us before use.
- Industrial floors with a suitable coating: please contact us beforehand.

### SUITABLE SUBSTRATES

- Concrete.
- Cement slabs.

### PROHIBITED SUBSTRATES

#### Do not use on:

- Plaster.
- Organic coverings (to be avoided completely).
- Substrates impregnated with fatty or greasy substances.
- Crumbling or weak surfaces.
- Uncoated (bare) industrial flooring.
- Pools, ponds or underwater surfaces.

### 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.
- Can be applied over **PRB ACCROSOL TECHNIC** sanded epoxy primer (direct application).
- Substrate adhesion:  $\geq 1.5$  MPa.

## TECHNICAL CHARACTERISTICS

### INGREDIENTS

- Fluid binders, fillers & specific additives.
- Grain size:  $\leq 2$  mm.

### PRODUCT

- Manipulation time (workable life of the mix): Approx. 30 mins at 20°C.
- Setting time (measured in water at 20°C): Starts to set: 1.5 hrs  $\pm$  45 mins.
- Completely set: 1 hr 45 mins  $\pm$  45 mins.
- Application thickness: 10 to 250 mm. For floors subject to heavy or abrasive traffic, the minimum application thickness should be 25 mm.
- Waiting time before removing shuttering/formwork: 2 to 3 hrs.

### Performance when hardened

- Class R4 in accordance with EN 1504-3
- Mechanical strength in MPa in accordance with EN 12190:

Strength	24 hrs	28 days
Flexural	$\geq 4$ MPa	$\geq 5$ MPa
Compressive	$\geq 25$ MPa	$\geq 45$ MPa

- Adhesion to concrete:  $\geq 2$  MPa.
- Thermal compatibility (Parts 1, 2 & 4):  $\geq 2$  MPa.
- Resistance to carbonisation: Satisfactory
- Chloride ion content:  $\leq 0.05\%$ .
- Modulus of elasticity:  $\geq 20$  GPa.
- Capillary Absorption:  $\leq 0.5$  kg/m<sup>2</sup>.h<sup>0.5</sup>.
- Reaction to fire: A1<sub>n</sub>.

- Class - according to EN 13813: CT-C40-F5.

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

- Can be used to create slopes of up to 2% (adjust the consistency accordingly).
- Ready to walk on after 3 hrs.\*
- Premises/area ready for use after 24 hrs.\*
- Can be sanded after 4 to 12 hrs.\*

- Waiting time before covering:\*
    - Glued tiles: after 3 hrs.
    - Plastic floor coverings: after 24 hrs.
    - Glued parquet floors: after 72 hrs.
    - Floor paints: after 96 hrs.
  - Can be left bare.
- For use in aggressive environments (in the presence of acidic compounds, etc.), we recommend coating with a suitable varnish or paint.

\* Depending on the thickness and ambient conditions.

## UTILISATION

### SUBSTRATE PREPARATION FOR FLOOR REPAIRS

- The substrate must be hard, adherent, rough, clean and free from dust.
- Hammer out the areas to be repaired and remove any damaged sections until you reach the sound concrete.
- For larger areas, the surface should be sandblasted or shot-blasted.
- Leave sharp edges on 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.
- Completely expose the reinforcement bar(s), including the reverse side, to a depth of 1 to 2 cm so that the mortar can embed around the reinforcement bar(s).

### WORKING AROUND SOUND STEEL REINFORCEMENTS

- Remove any rust from the bars by brushing or sandblasting and then apply a protective coating.
- Remove any dust from the areas to be repaired.
- **Option 1:** Apply **PRB PASSIVANT ACIER** to the bars and leave to dry.

- **Option 2:** Use a brush to apply a mixture of 50% **PRB PLANICHOC** and 50% **PRB LATEX** pure resin to the reinforcement bars

### FOR FLOOR LEVELLING OR MINI SCREEDS

- Surfaces must be structurally sound, clean and free of dust and moisture.
- Traces of plaster, grease, laitance etc. must be removed before applying.
- Large holes should be filled in 4 to 6 hrs before applying the mortar.
- Loosen around the edges.
- Use adhesion enhancers if necessary.

### MOISTENING THE SUBSTRATE

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

### FOR IMPROVED ADHESION (fresh-on-fresh)

If necessary on the areas to be repaired, and obligatory on the areas to be covered, apply an **adhesion enhancer** in the form of a bonding slip containing **PRB PLANICHOC** mixed with a **PRB LATEX** resin + water solution: 2.25 L of **PRB LATEX** + 2.25 L of water for 25 kg. Apply the bonding slip to the required area(s) using a brush or wide paintbrush.

### PRODUCT PREPARATION

- Using an electric mixer (set to 500 rpm), mix 1 x 25 kg bag with 4.25 to 4.75 litres of clean water until you obtain a smooth mixture.

### MANUAL APPLICATION

- **PRB PLANICHOC** should be applied:
  - As soon as **PRB PASSIVANT ACIER** (Option 1) or the bonding slip (Option 2) has dried/set.
  - If you have applied a **PRB PLANICHOC/LATEX Resin/Water mix for IMPROVED ADHESION**, as soon as it becomes firm but before it has completely hardened.
- Apply **PRB PLANICHOC** in layers of 10 to 250 mm thick.

#### For floor repairs:

- Apply the mortar by pouring. The mortar should be poured on one side only, without interruption (continuous flow), to avoid air pockets.
- 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 trowel or float.

### For floor levelling/mini screeds:

- Apply the mortar in a single continuous layer using a stainless steel smoothing trowel with wide back and forth strokes.
- Mini screed: prepare formwork to the required thickness, position thickness gauges on the surface if necessary, then pour the product. For thicknesses greater than 30 mm, use a bubble release bar to perfect the surface. Divide the area according to the thickness, surface area and number of workers.

### For technical joints

- Leave a perimeter joint of 3 to 10 mm wide: apply a foam strip (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.

### 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.
- Agricultural and farming environments: in accordance with applicable professional, health, hygiene and environmental rules and regulations. We recommend seeking advice from a specialist design office.