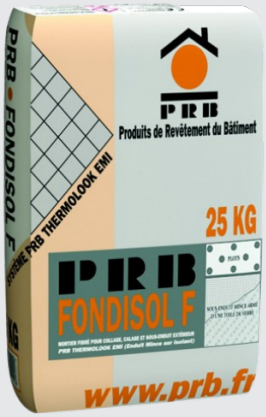
PRB FONDISOL F

HIGH PERFORMANCE FIBRED BASE COAT & ADHESIVE MORTAR

Benefits of the PRB FONDISOL F

- High performance fibre reinforced basecoat for render board substrates, EWI systems and ICF constructions
- Levelling and bonding of insulation boards on to the substrate
- Suitable for use as a dash receiver base coat



KEY PRODUCT INFORMATION

- 25 kg paper bag.
- 1.05 t pallet, i.e. 42no 25 kg bags.

CONSUMPTION

- From 6 - 7m² (3.6 - 4 kg/m²) for fully bonding the EWI insulation.
- From 9 - 10m² (2.5 - 2.7 kg/m²) for spot bonding the EWI insulation.
- From 4.2 - 5.4m² (4.5 to 5 kg/m²) as a thin 3 - 4 mm mesh reinforced base coat.
- From 4.2 - 5.4m² (4.5 to 5 kg/m²) as a 3 - 4 mm dash reciever.
- From 2.6 - 3m² (8 to 9 kg/m²) as a 5 - 6 mm mesh reinforced base coat.

COLOUR: Grey and White

STORAGE: 12 months

APPLICATION TEMPERATURE: 5°C - 30°C

WHERE TO USE

- For bonding and leveling insulation panels (EPS, wood fibre and mineral/stone wool) for EWI systems.
- As a base coat (reinforced with **PRB AVN MESH**) when used as part of an EWI system on EPS, mineral/stone wool or wood fibre insulation. On suitably level substrates: Concrete, concrete blocks, bricks, lightweight aircrete blocks, old coated substrates and PRB approved render boards. Other substrates: please contact PRB.
- As a dash receiver base coat.
- For full guidance refer to the EWI System certifications detailed below and PRB specifications.:
- **PRB THERMOLOOK GF** and **GM:** External wall insulation system (EWI), thick mineral render finish on expanded polystyrene (EPS) insulation: BBA 23/7000, ETA: 07/0165 and TAD 7/12-1516.
- **PRB THERMOLOOK EMI:** External wall insulation system (EWI), thin render finish on expanded polystyrene (EPS) insulation. BBA 23/7000, ETA: 08/182 and TAD 07/13-1557.
- **PRB THERMOROCHE:** External wall insulation system (EWI), thick and thin render finishes on mineral/stone wool insulation. BBA 23/7000, ETA 12/0585 and TAD 7/12-1534.
- **PRB THERMOBOIS:** External wall insulation system (EWI), thick and thin render finish on wood fibre. insulation. ETA 19/0654.

WHERE TO USE?

1. REINFORCED THIN RENDER ON EPS, MINERAL/ STONE WOOL AND WOOD FIBRE INSULATION

- **PRB FONDISOL F** is part of the **PRB EWI** systems to create a thin render basecoat reinforced with **PRB AVN MESH**.

2. BONDING OR LEVELLING OF EPS, MINERAL/STONE WOOL AND WOOD FIBRE INSULATION PANELS

- **PRB FONDISOL F** has a bonding and levelling function.
- When bonding the insulation with **PRB FONDISOL F** it may also be combined with supplementary mechanical fixings that provide additional support for the insulation systems. To meet the building performance and to obtain a PRB guarantee, always request a PRB specification.

ASSOCIATED INSULATION MATERIALS

- Expanded polystyrene panels **PRB ISOLOOK EPS, PRB ISO BD EPS, PRB GREY EPS**, mineral/stone wool panels **ROCKWOOL DD**, wood fibre panels, **STEICO PROTECT DRY** or other PRB approved EPS, wood fibre, mineral/stone wool insulation materials.

ASSOCIATED COATINGS

PRB FONDISOL F is not designed to remain uncoated, so it must be covered by a thick render finish, thin coat finish or a dash receiver coat with some options detailed below.

Thin coat finishes:

- **PRB CRÉPOXANE**, **PRB CRÉPISIX M**, **PRB CRÉPILIS FR SC & F**, **PRB CRÉPIRIB FR**, **PRB CRÉPIMUR FR**, **PRB CRÉPIMUR FR SOUPLE**, **PRB RÉVOMUR** over a primer coat of **PRB CRÉPIFOND G**.

Mineral finishes:

- Apply **PRB CREPIXATE** over a primer coat of **PRB CRÉPIXATE MINERAL PLUS** or **PRB CRÉPICHAUX FR SC ET F** over a primer coat of **PRB CRÉPIXATE MINERAL PLUS**.

Thick coat mineral finishes:

- **PRB THERMOLOOK GM/GF (**as an alternative finish for the THERMOLOOK EMI system).

Paint:

- **PRB COLOR SILOCRYL, PRB COLOR SILOXANE, PRB COLOR ACRYL FLEX FR** or for mineral finishes, **PRB COLOR MINERAL G**.

APPLICATION CONDITIONS

PRB FONDISOL F must not be applied:

- When the temperature is less than 5°C or higher than 30°C.
- At a humidity level in excess of 80% (rain or fog) or when it is damp - Wash off is likely to occur.
- When there is a hot dry wind (the accelerated evaporation causes fast drying out and can lead to the appearance of joints, shadow lines etc.
- Do not apply if there is a possibility of rainfall before curing, as wash off could occur.
- On damp substrates as permanent or intermittent surface blistering can occur - (this can appear after initial drying or after rainfall).
- For large areas it is recommended to use a spray applicator for ease of application.

TECHNICAL CHARACTERISTICS

COMPOSITION

- Hydraulic binders CPA CEM 1, natural hydraulic lime NHL.
- Silica fillers, sandstone fillers.
- Fibres, powdered bonding resins, rheology additives.

PRODUCTS

MIXED PRODUCT:
- Density: 1.4 ± 0.1 t/m³
- pH: 12.5 ± 0.5
- Compressive strength: CS IV >6 MPa

PERFORMANCES IN HARDENED CONDITION:
- Adhesion to EPS: > 0.12 MPa
- Adhesion on concrete: > 1 MPa

FIRE BEHAVIOUR AS PER EN 13501-1:
- PRB THERMOLOOK EMI: Euroclass B (RA16-0225)
- PRB THERMOROCHE: Euroclass A2 to B (RA16-0238)

APPLICATION

BONDING/ADHESION OF INSULATION:
- Open time: ± 30 mins
- Adjustment time: ± 20 mins
- Drying time before rendering: 24 hrs
- Drying time before anchoring: 24 hrs

CAUTIONARY ADVICE:
- Apply to walls in the shade. Avoid applying to walls that have direct sunlight and take extra precautions on hot dry days to reduce the potential for dehydration of the material which will cause it to set too early before it has reached its full strength.

N.B.: These values are laboratory testing values determined using applicable technical guides. The preparation conditions may modify them significantly.

APPLICATION

NEW SUBSTRATES

- Substrates must have surfaces that are sound and clean and must not release moisture. They must also be suitably level.

PAINTED OR RENDERED SUBSTRATES

- These substrates must be sound, mechanically strong and well bonded. The paint or render must be adherent and cohesive.
- Befoe applying the insulation, treatment to remove moss and algae and to clean the surfaces is mandatory. Use **PRB ACTI FLASH**.

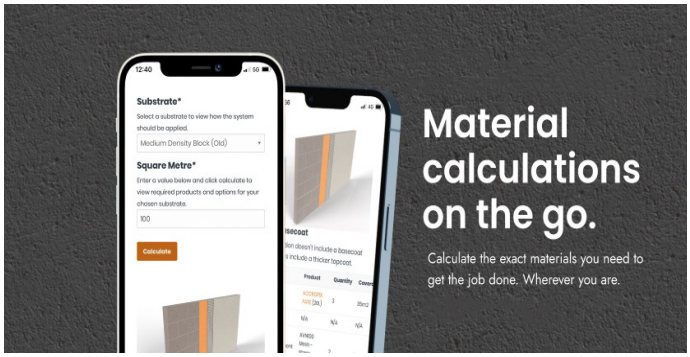
SCAN THE QR CODE BELOW TO FIND THE MATERIAL QUANTITY NEEDED

PRODUCT PREPARATION

- **For hand application:**

Mix the **PRB FONDISOL F** with 6 to 6.5 litres of clean water per 25 kg bag using a low speed paddle mixer until a consistent mix is obtained then apply using a stainless steel trowel.

- **For Machine application:**
- Mechanical: Diesel or electric pump.
  - Water setting: 15 bars minimum.
  - Nozzle Ø: 10 mm minimum.
  - Screw rotation speed: 1/3 or even 1/2 the maximum rotation speed.
  - Water: 6 to 6.5 litres per 25 kg bag.



APPLICATION

BONDING AND MECHANICALLY FIXING THE INSULATION PANELS:

- Mix and apply the **FONDISOL F** either in large dabs (5 x 150 mm diameter or 8 x 100 mm diameter per board ensuring a minimum of 50% of the insulation board is covered) together with a full perimeter band or apply the **FONDISOL F** to the whole of the surface of one face of the insulation using an 8mm notched trowel. The notched ribbon concept should be of a uniformed thickness, run vertically and reach the perimeter of the insulation board.
- Bond the insulation immediately to the wall with firm pressure. Using specific EWI mechanical fixings suitable for the insulation thickness and the substrate type are mandatory to comply with the system certification, unless an adhesive only system is specified with the EPS Insulation.
- To achieve this, 5 to 8 mechanical fixings per full size panel will be used and when bonded with dabs, must align with the centre of each dab.

NB: The anchors are fixed as soon as the adhesive mortar hardens i.e. at least 24 hours.

FOR SEALING RENDER BOARD JOINTS

- Across all board joints apply a 1 – 2 mm layer of **FONDISOL F** embedded with 100 mm wide strips of **AVN MESH**. Ensure the mesh is overlapped a minimum of 100 at all joins. Allow to cure before proceeding with the base coat.

APPLICATION AS A MESH REINFORCED BASECOAT ONTO INSULATION PANELS, RENDER BOARDS OR FLAT MASONRY SUBSTRATES

- After applying onto the substrate, use a trowel or spatula to spread a first coat of **PRB FONDISOL F**, use a serrated trowel first and then embed a layer of **PRB AVN MESH** and when additional impact resistance is required, **PRB AVR MESH**.
- **PRB AVN MESH** to be lapped a minimum of 100 mm to all edges.
- **PRB AVR MESH**, which is recommended for basements or high impact locations, should be butt jointed, then covered using **PRB AVN MESH**.
- Apply a second coat to fully embed the mesh and obtain a thickness of about 3 - 4 mm, 4 - 5 mm when using the **PRB AVR MESH**. This operation can be carried out immediately after the first coat, or after 4 to 24 hours.
- Level and rule with a spatula and/or Darby, leaving the surface with a notched trowel finish for the thick coat mineral finish **PRB THERMOLOOK** and a smooth level finish for the thin coat finishes e.g. **PRB CREPISIX M**, **PRB CREPOXANE F** or **M**, **PRB RÉVOMUR**.
- Leave to fully dry (the moisture content should be 12 – 14% - Test with a moisture meter) before applying the thin coat finishes or for at least 24 hours before applying the thick coat mineral finish.

- **APPLICATION TIP:** To create a smooth surface finish, apply a tight coat (less than 1 mm) topcoat to a dry basecoat (next day) with a trowel and finish with a spatula and if required finish after with a damp but not wet sponge.

APPLICATION AS A DASH RECEIVER

- When applying as a dash receiver topcoat over the basecoat application, follow the basecoat application guidance but exclude the mesh and whilst still wet apply the designated dash by casting the stone in an even manner to the wet surface. If required run a light trowel over the dash surface to embed the dash further into the receiver coat.

HEALTH & SAFETY

- Contains cement and lime.
- May produce an allergic reaction. Harmful if inhaled, irritating to eyes and skin. Wear suitable protective clothing, gloves and eye/face protection.
- In case of contact with eyes, rinse immediately with plenty of water and seek medical help. After contact with skin, wash immediately with plenty of soap and water.
- Keep out of the reach of children.
- For further information, please read the Material Safety Data Sheet for this product.

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