

PRB THERMOLOOK GF/GM

HYDRAULIC FINISHING RENDER

FOR EXTERNAL THERMAL INSULATION



The **+**s of PRB THERMOLOOK GF/GM

- +** Thick finishing render for new builds, renovation and Timber-framed houses - Thermolook GF/GM, THERMOLOOK EMI, Thermoroche & Thermobois systems
- +** Mechanical application
- +** Finishes Scraped, rustic or roughcast
- +** Possibility of creating a pattern and/or imitation stonework on the PRB THERMOLOOK GF EWI system (please contact us for more information)
- +** Fine grain available in the colour "Neige" (snow)

PACKAGING

– Paper bag containing 25kg

STORAGE LIFE: 18 months.

CONSUMPTION/USE

Indicative table of minimum consumption in kg/m²:

Direct application (with metal reinforcement or TDV (AVE) mesh - 10x10) on PRB ISOLOOK EPS (with dovetail groove):

Finishes	Scraped	Rustic or roughcast
Number of layers	2	2
PRB THERMOLOOK GF/GM	21 to 23 kg/m ² (16 to 19 mm) finished thickness	18 to 20 kg/m ² (16 to 18 mm) finished thickness

On a PRB FONDISOL F base coat reinforced with TDV and finished with a serrated trowel.

Finishes	Scraped	Rustic or roughcast
Number of layers	1	2
PRB THERMOLOOK GF/GM	11 to 15 kg/m ² (7 to 10 mm) finished thickness	8 to 9 kg/m ² (7 to 8 mm) finished thickness

COLOUR: 95 PRB and SUN + colours, including Neige



EN 998-1
Type: LW - CS category: 1



AREA OF USE

USES

- Exterior and interior walls
- External wall insulation (EWI) finish for exterior walls on all types of residential, commercial and industrial buildings, both new and renovation.
- External wall insulation (EWI) finish for timber-framed houses.
- ETA-07/0165 & TAD 7/17-1683_V1 PRB THERMOLOOK GF/GM System.
- Technical Notice 7/17-1703_V1 Thermolook GF/GM - timber-framed houses.
- ETA-08/0182 and TAD 7/18-1716_V1 Thermolook EMI (thin render on EPS, including variant for finishing with Thermolook GF/GM render).
- Technical Notice-7/18-1717_V1 Thermolook EMI - timber-framed houses (thin render on EPS, including variant for finishing with Thermolook GF/GM render).
- Reaction to fire: RA 16-0225 in accordance with NF EN 13501-1. THERMOLOOK EMI and RA 08-0287 for the PRB THERMOLOOK GF/GM system.
- EWI Specifications (for each system).
- ACERMI EPS certification - Th 38 & Th 31.
- TDV AVE certification.
- French DTU Standard 26.1 - P1-1, P1-2 and P2.
- Technical specification 3035 and other Technical Specifications in force.
- Safety Data Sheet & Environmental Product Declaration

- Other documents: available upon request from the PRB technical department.

SUITABLE SUBSTRATES

- EPS (Expanded Polystyrene) (White) and Graphite EPS (Grey).
- For all other substrates, other EPS or other construction methods, please contact the PRB Technical Department.

PROHIBITED SUBSTRATES

- All gypsum-based substrates (plaster).
- Paint & thick paint coatings.
- Bare wood.
- Horizontal or sloping surfaces (except arches and soffits).

APPLICATION CONDITIONS

- Between 5°C and 35°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 use at temperatures below 5°C or below 8°C for deeper shades, or in high humidity (increased risk of efflorescence or carbonation).

TECHNICAL CHARACTERISTICS

INGREDIENTS

- Vinyl copolymer-based powder, high calcium lime, natural hydraulic lime & white cement.
- Quartz sand.
- Specific additives.
- Water-repellent agents & lightfast mineral pigments.

PRODUCTS

POWDER:

- Max. grain size: THERMOLOOK GF: 1.8 to 2 mm
- Max. grain size: THERMOLOOK GM: 3 to 3.15 mm

PASTE:

- Water retention: 80 to 90%
- pH (alkaline): 12.5 ± 0.5

PERFORMANCE WHEN HARDENED:

- Density: 1 to 1.4 t/m³
- Modulus of elasticity: <5,000 MPa
- Flexural strength: <1.5 MPa

PERFORMANCE ACCORDING TO EN 998-1/ LW MORTAR

PRB THERMOLOOK GF/GM is only suitable for colours with an absorption coefficient of less than 0.7.

- Compressive strength: CS I (0.4 to 2.5 N/mm²)
- Water vapour permeability (co-eff.): <20 (established value)
- Thermal conductivity (λ, 10, dry): 0.30 W/mK (established value).

- Durability/adhesion after freezing/Rupture: >0.2 N/mm² - A, B or C
- Water absorption: W1
- Capillarity <0.40 kg/m².min0.5
- Reaction to fire (non-combustible): A1 (M0)
- Behaviour on EWI render in accordance with the ETAG 004 Standard: Favourable.

APPLICATION

- Mixing ratio: 23 to 26%
- Mixing time: 5 mins
- Mixture handling time: approx. 60 mins
- Setting time - before scraping: 4 to 24 hrs
- Setting time between two layers: 24 hrs minimum to 96 hrs maximum.

NB: These values are estimates based on laboratory or on-site testing. The conditions of use, the type of material used and its level of wear and tear can significantly alter these values.

UTILISATION

SUBSTRATE PREPARATION

Please refer to the Technical Notice, ETA and TAD for the EWI process concerned.

MORTAR PREPARATION AND SPRAYING

Exclusively for mortar pumps/sprayers.

- For every **25kg bag**, mix **PRB THERMOLOOK GF/GM** with **5.75 to 6.5 L of clean water** for 5 mins.
- The water dosage and mixing time should be as consistent as possible to ensure regular colour throughout.
- Similarly, if using batches from different dates, these should be mixed proportionally to avoid irregular colouring.

- **Application method:** pneumatic spraying (hydraulic render spraying machine for facades).

• MACHINE SETTINGS (worm drive type):

- Fit a pressure gauge to the end of the pressure tap if it does not have one.
- Fill the tank containing the worm drive halfway with water.
- Start the machine.
- **Set the worm drive knob** to **1/3** maximum speed (no more). Turn the worm drive screw and tighten the pressure tap to obtain a **minimum pressure of 15 kg**.
- **Important:** Never tighten the worm drive screw too quickly, but keep it at the upper end of the water/mixing ratio range and allow a minimum mixing time of 5 minutes after the last bag has been emptied into the mixer.

APPLICATION AND TYPES OF FINISH

- PRB THERMOLOOK GM/GF can be applied to provide the following finishes: Scraped, rustic, roughcast, embossed or sculpted.
- A sponge float finish is not recommended, but is tolerated on small areas of mouldings (fascias, corner bricks, plinths (0.60 to 1.00 m high), window surrounds, etc.).

PRECAUTIONS FOR USE

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

IMPORTANT INFORMATION

- Before applying PRB THERMOLOOK GF/GM:

You must consult the ETA, TAD or Technical Notice, as well as the specifications for the relevant EWI process.