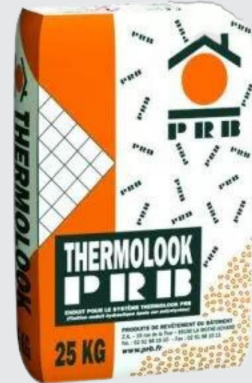


# PRB THERMOLOOK GF/GM

**MINERAL TOPCOAT RENDER FOR USE ON EXTERNAL WALL INSULATION AND RENDER BOARD SYSTEMS**

## Benefits of the PRB THERMOLOOK GF/GM +

- + Mineral topcoat render for PRB EWI systems: Thermolook GF/GM EPS, Thermoroche (Mineral Wool) and Thermobois (Wood Fibre)
- + Spray machine and hand application
- + Finishes: Scraped, Rustic, Roughcast
- + Possibility of creating a pattern and/or imitation stones on PRB THERMOLOOK GF EWI system (contact PRB)



## KEY PRODUCT INFORMATION

- 25 kg-paper bag
- 1.2 t-pallet, i.e. 48no 25 kg-bags



EN 998-1  
Type LW Class CS1



**STORAGE:** 18 months

**WATER CONTENT:** 5.75 - 6.0 L \*7.0L /25kg bag

\*When temperatures reach 25 °C+ there may be a requirement to increase the water content to maintain workability.



**APPLICATION TEMPERATURE:** 5°C - 30°C

## CONSUMPTION

The guidance given below is based :

Direct application (with **PRB ORANGE MESH** or **PRB AVE MESH 10x10**) on **PRB ISOLOOK EPS**

| Finishes                    | Scraped                                                                                               | Rustic or Roughcast                                                                                    |
|-----------------------------|-------------------------------------------------------------------------------------------------------|--------------------------------------------------------------------------------------------------------|
| Number of applications      | 2                                                                                                     | 2                                                                                                      |
| <b>PRB THERMOLOOK GF/GM</b> | 1.08 - 1.2m <sup>2</sup> / 25kg bag<br>21 to 23 kg/m <sup>2</sup><br>@ 16 to 18 mm finished thickness | 1.25 - 1.38m <sup>2</sup> / 25kg bag<br>18 to 20 kg/m <sup>2</sup><br>@ 16 to 18 mm finished thickness |

On to a basecoat of **PRB FONDISOL F** reinforced with **PRB AVN MESH** and left with a serrated finish.

| Finishes                    | Scraped                                                                                    | Rustic or Roughcast                                                                     |
|-----------------------------|--------------------------------------------------------------------------------------------|-----------------------------------------------------------------------------------------|
| Number of applications      | 1                                                                                          | 2                                                                                       |
| <b>PRB THERMOLOOK GF/GM</b> | 1.6m <sup>2</sup> / 25kg bag<br>11 to 15 kg/m <sup>2</sup><br>@ 7-10 mm finished thickness | 2.0m <sup>2</sup> / 25kg bag<br>8 to 9 kg/m <sup>2</sup><br>@ 7-8 mm finished thickness |

**COLOUR:** 95 PRB and Sun+ colours including Neige.

### WHERE TO USE?

- Interior and exterior walls.
- As a direct application to masonry and PRB approved render boards.
- As a top coat finish on EWI for external walls on all types of industrial, office or housing construction for new build or refurbishment.
- As part of the ETA-08/0182, UKTA-0836-23 and TAD 7/13-1557 & 58 PRB Thermolook EMI. (EPS)
- As part of the ETA-07/0165 and TAD 7/12-1516 & 17 PRB Thermolook GF/GM system on steel mesh.(EPS)
- As part of the ETA-12/0585 PRB Thermoroche
- As part of the ETA-19/0604 & 05 Thermobois Cob & Thermobois (Wood fibre on timber frame house).
- All EWI applications must be accompanied by a PRB specification.
- Other documents: On request to the PRB technical department.

### SUITABLE SUBSTRATES

- ✓ Expanded polystyrene EPS70E in white or grey graphite enhanced grades.
- ✓ Rockwool DD mineral / stone wool insulation slabs.
- ✓ Pavatex or Steico EWI wood fibre insulation slabs.
- ✓ Suitable masonry or render substrates or substrates approved by PRB.
- ✓ It is imperative to consult the PRB technical department for all substrates and to obtain a PRB specification.

### PROHIBITED SUBSTRATES

- ✗ All gypsum based substrates (Plaster).
- ✗ Paints, thin coat acrylic finishes.
- ✗ Directly on wood.
- ✗ Horizontal or sloping surfaces (except arches and undersides of lintels etc).

### APPLICATION CONDITIONS

- Between 5°C and 30°C.
- Do not apply on substrates that are frozen or thawing, hot or exposed to full sunlight, saturated or exposed to driving rain or strong winds.
- Avoid applying dark colours at temperatures <8°C and in very damp conditions (increased risk of blooming).
- Take extra precautions when applying in hot weather and strong winds in order to avoid premature drying out.

SCAN THE QR CODE BELOW  
TO FIND THE MATERIAL  
QUANTITY NEEDED



### REFERENCE DOCUMENTS

- BS 5628-3 Code of Practice for the use of masonry.
- BS EN 13914-1 Code of Practice for external rendering.
- BS 8000 Workmanship on building sites.

### APPLICATION AND FINISH OPTIONS

Apply the **PRB THERMOLOOK** in one pass/coat to the desired thickness.

#### SCRAPED FINISH

For a scraped finish apply an additional 2 – 3mm as this will be removed by the scraping process to give a finished thickness of 12, 15 or 20 mm. Rule and level the surface using a serrated Darby, straight edge or spatula, then smooth the surface and allow to harden for between 5 and 16 hours depending upon the temperature. Sometimes a longer period may be necessary depending on weather and background conditions. When sufficiently set, using an I bar, scrape the surface to remove high points and begin opening the surface of the render, then using a scraping float, scrape the surface in small circular motions, removing no more than 3 mm from the surface to remove any slight imperfections and to bring the total render application to the desired scraped finish, specified thickness and to leave an unblemished finish. After scraping, remove any surplus residue from the surface by brushing with a clean, soft bristle brush. Always stand back and examine the whole surface for blemishes and unevenness. Errors must be corrected at this stage as rectification later is unlikely to be achieved. Each elevation must be scraped at the same stage, as early scraping e.g. same day, will result in a slightly darker shade and later scraping e.g. next day, in a lighter shade.

#### SPRAYED TEXTURED/ROUGHCAST FINISH

Apply a minimum ruled and level 10 mm base coat. Ensure the render is sufficiently dry but still in a green condition – 1 – 2 hours, then spray the textured coat to the desired effect from light Tyrolean to a Heavy Roughcast appearance to create a single monolithic coat. During the spraying process allow time between each build-up of the textured layer for the render to “semi-set” to avoid creating a slump effect in the finish. This building up process will then enable the creation of a heavy roughcast appearance.

#### FLOATED FINISH

**PRB THERMOLOOK** is not suitable for smooth finishes as surface hairline cracks can form under certain conditions.

### COLOUR

- Because this is a naturally pigmented product whenever possible, obtain colour samples prior to specifying and apply a sample panel for approval. Ensure you follow the mixing guidelines and water content for the product to avoid a shade difference.
- The quantity of material required for a given area (e.g. when applying to the same elevation) should be of the same batch number or if not, the different batches of material must be thoroughly mixed to avoid shade variations.
- Avoid applying the render to the same elevation at different times or applying half of the elevation one day and the other half another day as shade variations can occur.

### GENERAL ADVICE

It is advisable to dampen the surface after initial curing of the topcoat finish, using a garden sprayer or mist spray from a hose to prevent early surface hardening which can lead to surface micro cracking. Until the render is dry and hardened, it is recommended to cover with hessian or mortar fleece to protect from drying winds, frost, strong sun and driving rain.

Caution must be given when dealing with darker colours because these are more vulnerable to marks showing on the finish generally caused by over working the finish, adding too much water to the surface when sponging or trowelling, or using dirty trowels or sponges, or finishing during unsuitable weather conditions (e.g. wet or damp climatic conditions, direct sunlight, drying winds) and not taking suitable precautions against these conditions, therefore good application procedures and techniques are paramount to avoid these effects occurring.

#### Colour consistency

The evenness and consistency of the colours will be affected by the climatic conditions in which they are applied (temperature, humidity, wind, sunlight). Shading may occur if the application conditions are not identical. Similarly, surface shadowing can be created in the finish by scaffolding platforms and scaffold poles when the sun is shining, due to the difference in drying between the area exposed to the sun and the area in the shade. This phenomenon is more noticeable with darker shades.

To avoid this natural phenomenon, we recommend that scaffolding be covered with a tarpaulin or netting to reduce the amount of solar energy absorbed and to ensure uniform setting and drying conditions.

## TECHNICAL CHARACTERISTICS

### COMPOSITION

- Vinyl copolymer based powder, calcic lime, natural hydraulic lime, white cement.
- Quartz sands.
- Specific additives.
- Waterproofing compound, mineral pigments stable in light.

### PRODUCT

#### POWDER:

- Max. grading:
  - **THERMOLOOK GF:** 1.8 to 2 mm
  - **THERMOLOOK GM:** 3 to 3.15 mm

#### MIXED PRODUCT:

- Water retention: 80 to 90 %
- pH (alkaline):  $12.5 \pm 0.5$

#### PRODUCT PERFORMANCE IN HARDENED CONDITION:

- Density: 1 to 1.4 t/m<sup>3</sup>
- Modulus of elasticity: < 5,000 Mpa
- Bending strength: < 1.5 Mpa

#### RENDER PERFORMANCE ACCORDING TO EN 998-1 / LIGHTWEIGHT RENDER

The PRB THERMOLOOK GF/GM render is only approved in colours with an absorption coefficient of: < 0.7.

- Compressive strength: CS I (0.4 to 2.5 N/mm<sup>2</sup>).
- Permeability to water vapour (coef): < 20 (tabulated value).
- Thermal conductivity ( $\lambda$  10 sec.): 0.30 W/m<sup>2</sup>K (tabulated value).
- Durability / adherence after freezing/Rupt: > 0.2 N/mm<sup>2</sup> A or B or C.
- Water absorption: W1 C < 0.40 kg/m<sup>2</sup>.min.0.5.
- Fire rating: A1 – Fire rating on EWI systems as per ETAG 004 and BS EN 13501-1 and subject to insulation type used.  
Fire classification n° RA08-0287 as per EN 13501-1. PRB THERMOLOOK GM/GF SYSTEM.
- Fire classification n° RA13-0144 as per EN 13501-1. THERMOLOOK EMI.

### MORTAR PREPARATION



Mixing rate: 5.75 to 7.0 L clean water / 25 kg bag.

- Mixing time: 5 mins.
- Open time of the batch: about 60 min (subject to temperature)
- Time before scraping: 4 to 24 hrs
- Time between two applications: from 24 hrs minimum to 96 hours maximum.
- The water dosage and the mixing time must be as consistent as possible to guarantee the evenness of the shade.

**N.B.:** These values are standard laboratory or site testing values. The preparation conditions and the type and application of the material used may modify them significantly.

### NOTE

Due to its low cement content there is no benefit in using an accelerator in the **PRB THERMOLOOK** product.

### HEALTH AND 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.

