

# weber.therm B1 plus

## Render for thermal insulation systems

Technical Data Sheet  
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### ■ Description

Cement-based, polymer modified render for thermal insulation systems.

### ■ Advantages

- In conformity with ETAG 004\*.
- Ensures perfect adherence to thermal insulation panels.
- Resistant to thermal shocks.
- Easy to apply and forms smooth surfaces.

### ■ Range of application

- Applied as substrate render on XPS, EPS and mineral wool thermal insulation panels at all buildings.

### ■ Application substrates

- On interior and exterior walls;
  - XPS (extruded polystyrene),
  - EPS (expanded polystyrene),
  - Mineral wool,
- Please consult us for all other application substrates.

### ■ Application properties

- Pot life: 3 hours
- Application thickness: 4 mm
- Coat thickness: Max. 2 mm
- Time between the coats: 3-4 hours
- Time to wait for final coat application of **weber.therm B1 plus**: min. 7 days.

### ■ Performance

- Mass per unit volume of fresh mortar:  $1500 \pm 100 \text{ kg/m}^3$
- Porous density of hardened cement-based render:  $1300 \pm 200 \text{ kg/m}^3$
- Granulometry: the percentage left on the 1 mm sieve  $\leq 1,0$
- Compression strength:  $\geq 6 \text{ N/mm}^2$
- Adhesion strength with the isolation panel:  $\geq 0,08 \text{ N/mm}^2$
- Water absorption:  $\leq 0,5 \text{ kg/m}^2 \cdot \text{dk}^{(0,5)}$
- Water vapor permeability:  $\mu \leq 15$
- Thermal resistance:  $\leq 0,45 \text{ W/mk}$

*These values were obtained as a result of laboratory tests and they are valid for performance of finished applications at the end of drying time. Values may vary due to differences in ambient jobsites.*

### ■ Reference standards

- TS 13687
- Public Works No: 04.481.

### ■ Attention points

- Dilatation joints should not be covered with **weber.therm B1 plus**, dilatation profile should be used for these parts.

### ■ Preparation of substrate

- The insulation panel should be clean, dry and be bonded on the lower substrate well.
- The gaps between panels should be filled with the same insulation material or foam as per the width, the protrusions to occur should be cleared to reduce the consumption of **weber.therm B1 plus**.

### ■ Conditions of application

- Ambient temperature is between  $+5 \text{ }^\circ\text{C}$  and  $+30 \text{ }^\circ\text{C}$ .
- Avoid application in very damp and/or hot weather, under the sunlight.
- It should not be used on substrates which are frozen or melting or have the risk of frost or rain within 24 hours.

### ■ Application

- Average 6,5 lt clean water and 25 kg bag. **weber.therm B1 plus** should be mixed with a low-speed mixer or trowel preferably well as there will be no pellet.
- The mortar should be aged for 10 minutes before application.
- **weber.therm B1 plus** should be applied on the substrate via steel trowel.
- Glass-fiber mesh should be placed by pressing upward to downward and stretching, without folding and as to be at the same distance from insulation panel to the whole surface before **weber.therm B1 plus** dries.
- To avoid cracks, glass-fiber mesh should be applied by overlapping as 10 cm at joining points.
- The glass-fiber mesh should be turned at least 20 cm in the corners and around all beams, window and door frames.
- Second hand of application should be started after 3-4 hours.
- After the application, the surface will be ready for exterior coating.

### ■ Consumption

5 kg/m<sup>2</sup>.

### ■ Packaging

Net 25 kg bag,  
(64 units in pallet, 1600 kg).

### ■ Pallet size

107 x 107 cm.

### ■ Color

Grey.

### ■ Application tools

Hand mixer, steel trowel, glass-fiber mesh.

## ■ Shelf life

1 year as of the production date in dry and moisture-free environment provided that packages will not be opened.

Package should be kept tightly closed when not in use.

FOR INFO

- The stated times apply for 20 °C substrate and ambient temperature and increase at lower temperatures and decrease at high temperatures.
- **Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.** is not responsible for the application errors arising from use of product beyond its intended purpose or failure to comply with the foregoing application conditions and advice on the product.



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