weber.therm B1 plus
Render for thermal insulation systems

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 ± 100 kg/m³
• Porous density of hardened cement-based render: 1300 ± 200 kg/m³
• Granulometry: the percentage left on the 1 mm sieve ≤ 1.0
• Compression strength: ≥ 6 N/mm²
• Adhesion strength with the isolation panel: ≥ 0.08 N/mm²
• Water absorption: ≤ 0.5 kg/m².d.k(0.5)
• Water vapor permeability: μ ≤ 15
• Thermal resistance: ≤ 0.45 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 °C and +30 °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/m².

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.

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.

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.