

webertherm B1 plus

Render for thermal insulation systems

Technical DataSheet

Release date: 6/5/2017

Revision date: 29/03/2023

■ Product Description

Cement-based, polymer modified render for thermal insulation systems

■ Reference Standards

- TS 13687
- Public Works No: 04.481

■ Benefits

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

■ Area of Use

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



■ Substrates

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

■ 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 **webertherm B1 plus**.

■ Application Conditions

• 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. **webertherm B1 plus** should be mixed with a lowspeed mixer or trowel preferably well as there will be no pellet.
- The mortar should be aged for 10 minutes before application. **webertherm 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 **webertherm 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.
- Time to wait for final coat application of **webertherm B1 plus**: min. 7days.
- Pot life : 3 hours; Application thickness: 4 mm; Coat thickness: Max. 2 mm

■ Tools

Hand mixer, steel trowel, glass-fiber mesh.

■ Attention points

• Dilatation joints should not be covered with **webertherm B1 plus**, dilatation profile should be used for these parts.

The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher 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 of failure to comply with the forgoing application conditions and advice on the product.

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■ Technical specifications

Product Name	webertherm B1 plus
Product Type	liquid
Water addition	25 Kg : 6,5 lt (we-bertherm B1 plus : water)
Mass per unit volume of fresh mortar	$\geq 1150 \text{ kg/m}^3$
Porous density or hardened cement-based render	$1300 \pm 100 \text{ kg/m}^3$
Granulometry	the percentage left on the 1 mm sieve $\leq \% 1,0$
Compressive Strength	$\geq 6 \text{ N/mm}^2$
Adhesion strength with the isolation pannel	$\geq 0,08 \text{ N/mm}^2$
Water Absorption (after 30 minutes)	$\leq 0,5 \text{ kg/m}^2 \cdot \text{dk}(0,5)$
Water vapour transmission	$\mu \leq 15$
Application Thickness	4 mm
Thermal conductivity	0.67 W/m.K
Water absorption	$\leq 0,5 \text{ kg/m}^2 \text{ dakika}^{0,5}$

■ Storage

Packaging	Net 25 kg bag, (64 units in pallet, 1600 kg).
Shelf life	1 year as of the production date in dry and moisturefree environment provided that packages will not be opened. Package should be kept tightly closed when not in use.

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