

# webertherm A1 plus

## Adhesive mortar for thermal insulation systems

### Technical DataSheet

Release date: 5/12/2017

Revision date: 7/1/2022

#### ■ Product Description

Cement-based, polymer modified adhesive mortar for thermal insulation systems.

#### ■ Reference Standards

- TS EN 13566
- Public Works No: 04.480.

#### ■ Benefits

• In conformity with ETAG 004\* • Has high bonding strength. • Resistant to thermal shocks.

#### ■ Area of Use

Applied for bonding of XPS, EPS, and mineral wool thermal insulation panels at all buildings.



#### ■ Substrates

On interior and exterior walls; - Concrete, - Brick, - Cement-based render, - Gas concrete, • Please consult us for all other application substrates.

#### ■ Preparation of Substrate

- The substrate should be clean, dry, smooth and sound.
- Very porous substrates should be wetted and wait until the water layer is removed as the substrate will remain damp. • Important deteriorations or holes on the substrate should be repaired with **weberep** MA 200 at least 24 hours before the application of **webertherm A1 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 lt clean water and 25 kg bag **webertherm A1 plus** should be mixed with a lowspeed mixer or trowel preferably well as there will be no pellets
- The mortar should be aged for 10 minutes before application.
- **webertherm A1 plus** should be applied all around of insulation panel and 5 mm of space should be left from the edges all around the board.
- 3 big parts **webertherm A1 plus** should be applied to the section in the middle in the point way.
- It should be noticed that 40 % of insulation panel must have coated with binder. Binders should not be excessive in joints as to prevent them to serve as conductor.
- **webertherm B1 plus** can be applied on insulation panels bonded with **webertherm A1 plus** after 2 days depending on weather conditions.
- Pot life: 3 hour

#### ■ Tools

Hand mixer, trowel.

#### ■ TDS Consumption

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

#### ■ Attention points

• Insulation panels should be placed as approximating each other closely, gaps between panels should be as few as possible to prevent heat transfer.

*The stated times apply for 20°C substrate and ambient temperature; increase at lower temperatures and decrease at higher temperatures. <b>Saint-Gobain Weber Yapı Kim. San. ve Tic. A.Ş.</b> 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 AI plus                                |
| Product Type                                   | liquid  |
| Water addition                                 | 25 kg : 6 lt ( <b>webertherm AI plus</b> : water) |
| Time before render application                 | 2 days  |
| Mass per unit volume of fresh mortar           | 1500 ± 100 kg/m <sup>3</sup>                      |
| Porous density or hardened cement-based render | 1300 ± 200 kg/m <sup>3</sup>                      |
| Compressive Strength                           | ≥ 6,0 N/m <sup>2</sup>                            |
| Adhesion strength with the substrate           | ≥ 0,5 N/m <sup>2</sup>                            |
| Adhesion strength with the isolation pannel    | ≥ 0,08 N/mm <sup>2</sup>                          |
| Water Absorption (after 30 minutes)            | ≤ 5 gr  |
| Water Absorption (after 240 minutes)           | ≤ 10 gr   |

**■ 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 |

FOR INFO

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