

## Technical Datasheet

# BAU T50

## Fibre-reinforced adhesive for thermal insulation panels

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### Description

BAU T50 is a cement-based adhesive, enriched with polymers (resins) and fibre-reinforced. It provides high initial and final adhesive strength and resistance to moisture.

### Application examples

BAU T50 is suitable for fixing thermal-insulation boards of extruded or expanded polystyrene, mineral wool, polyurethane, cork, etc. on facades made of concrete, render, or masonry. Moreover, when reinforced with fiberglass mesh and applied on the exterior side of fixed thermal-insulation boards, it constitutes the ideal substrate for the subsequent render layer.

### Compatible substrates

Bonds foam insulation materials (extruded/expanded polystyrene) and fibrous insulation materials (rockwool) on surfaces of:

- Floor Screed
- Plaster
- Wooden surfaces (eg OSB, chipboard, plywood, etc.)
- Concrete
- Plasterboard
- Cement boards
- Aerated concrete
- Bricks

### Incompatible substrates

- Surfaces painted with lime-based coatings
- Surfaces painted with oil based paints, lacquer or enamel
- Plastics

### Substrate preparation

Ensure that surfaces are sufficiently firm, dry and clean. Remove loose or detached fragments, dirt, oil, dust etc. Remove unstable paint coats from painted surfaces. Surfaces infected with fungi or algae must be thoroughly cleaned. Recently plastered surfaces must be left to cure for approximately 3 – 4 weeks. (allow approximately 7-10 days for each cm of plaster thickness) prior to material application.

For concrete surfaces allow at least 28 days for curing. It is recommended that it is dampened before application.

On smooth substrates it is recommended to use a suitable primer.

### Mixture preparation

Add progressively **BAU T50** in the container with clean water, stirring continuously. A low speed electric mixer (approx. 300 rpm) is recommended for mixing. After mixing the preparation is ready for use. Using excess water will not improve material workability; on the contrary, it may result in excessive setting shrinkage and reduction of final material performance in terms of surface hardness, adhesion and compressive strength.

### Instructions of use

#### As adhesive:

On smooth substrates the adhesive is spread on the surface and combed using a notched trowel in order to be uniformly applied on the whole of the surface. On uneven substrates the adhesive is applied with a

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trowel around the perimeter of the thermal-insulation board and in selected spots in the center. Next, the thermo-insulation boards are fixed by pressing them on the desired position.

### As reinforced mortar:

Initially the material is applied using a notched trowel or with a smooth trowel in a maximum thickness of 3-4 mm. On the still fresh layer the fiberglass mesh is placed and pressed with the smooth trowel to get fully encased in the adhesive. Finally, the surface is smoothed out and the excess adhesive is removed.

*Application is not recommended under extreme solar radiance (temperature greater than 35° C) or rainfall, or in periods when temperature is expected to drop below 5° C .*

### Technical features

<b>Form:</b> Cementitious dry mortar
<b>Colors:</b> white or grey
<b>Density:</b> ≈1.5 kg / 1 lt
<b>Water vapour permeability coefficient (μ):</b> 5/20
<b>Capillary water absorption (EN 1062-3):</b> W2
<b>Adhesion after 28 days of concrete EN 1542</b> ≥ 1,6 N/mm <sup>2</sup>
<b>Adhesion after 28 days on XPS:</b> ≥ 0,15 N/mm <sup>2</sup>
<b>Adhesion after 28 days on EPS:</b> ≥ 0,10 N/mm <sup>2</sup>
<b>Pot life:</b> 4-6 hours

### Consumption


As adhesive: 3,0-4,0 kg/m<sup>2</sup>, depending on the trowel's notch size and the nature of the substrate. As reinforced mortar: approx. 1,5 kg/m<sup>2</sup>/mm.

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2011
EN 998-1
General purpose rendering mortar (GP) for external use

**Remarks**

It is classified as a GP CS IV W2 rendering mortar according to EN 998-1 and as a C2 adhesive according to EN 12004.

**Storage**

12 months from production date, stored in original, packaging, in places protected from moisture.

**Packages**

25 kg paper bags

**Notes**

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