

## Technical Data Sheet

# BAU A25

## Deformable, polymer modified, cementitious tile adhesive

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### Description

Extremely versatile cement based tile adhesive with high resistance to moisture, suitable for the most types of tiles and indoor and outdoor applications. With prolonged workability for quick and secure adhesion to normal cement surfaces.

### Features – Advantages

- Adhesive for a wide range of applications
- Suitable for wet areas
- For indoor and outdoor applications
- Ideal for large dimension tiles
- Excellent durability and perfect application property
- For bonding tiles on wall or floor
- With admixtures of the latest adhesive technology
- With extended application time

### Types of tiles

All types of ceramic tiles, Porcellanato, clinker, cotto, marble-style ceramic granite, ceramic mosaic, large tiles.

### Substrates

- Concrete
- Plaster
- Cement screeds
- Lightweight concrete
- Brickwork
- Light structural elements

### Surface preparation

Provide smooth and stable surfaces, completely dry and free from shrinkage tendencies. Remove loose or detached fragments, dirt, oil, dust, etc. Seal off and repair any major voids and gaps. On surfaces coming into contact with the ground (e.g. basements) make sure that rising moisture is eliminated. Where increased resistance to moisture is necessary, prime with **BAU L40** acrylic emulsion. In cases of installation of tiles or marble on humid floor areas (eg bathrooms, balconies, etc.) it is recommended to install the BAU BF butyl tape at the corners between the floor and wall (vertical surfaces) before applying the tiling adhesive.

### Mixture preparation

Prepare the material in a suitable clean container; first pouring the required quantity of water and then gradually adding the contents of the bag, whilst stirring slowly with a low speed electric mixer. Mix carefully to avoid trapped air in the mixture, until a homogeneous mass without any lumps is obtained, forming a spreadable paste. After preparation of the mixture do not add more water to correct the workability of the mortar. This will reduce the strength and increase the shrinkage of the mortar.

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### High absorbing substrates

For surfaces exposed to extreme solar radiation and during extreme summer heat or in case substrate is excessively absorbent such as lightweight structural elements, we recommend one coat of BAU L40 emulsion that acts like primer, or slight wetting of substrates – without saturation - to reduce water absorption and to improve adhesive workability. In cases of especially demanding substrates (e.g. plaster board, cement board, MDF, old tile claddings, etc.)

### Low absorbing substrates


Surfaces that are smooth and non-absorbent should be prepared with reinforcing adhesion primer or chemical cleaning. Otherwise you can proceed to mechanical abrasion, hammering or shaping the surface and then, if it is necessary, smoothing by appropriate products.

### Instructions for use

Apply the mixture to the substrate using a serrated metal spatula. To ensure improved adhesion on the substrate, spread a thin coat of adhesive with the smooth side of the spatula and immediately apply the desired thickness of adhesive with the serrated edge of the spatula. If the back of the tiles is dusty, we recommend washing with clean water. Within 30min, fix tiles one by one and press them to ensure firm contact. Open time under adverse weather conditions (sunlight, high temperatures, dry atmosphere, etc) or on highly absorbent surfaces, can be reduced even to a few minutes. Check periodically with your fingers whether a membrane has formed on the surface of the adhesive. In such a case, remove the dried part and add a quantity of fresh adhesive. Minor adjustments to alignment can be made within 30min of tile placement. If the surface is left for a prolonged period and corrections are necessary, remove the tile, clean the adhesive from the surface and remount in the proper position. In case of minor surface irregularities or if increased adhesive thickness is necessary for alignment, spread the surface with a layer of adhesive of the required thickness and another layer of adhesive on the back of the tile. Mount the tile in place and press to ensure firm contact (at least 60-70%). On outdoor applications i.e. floors and walls subject to freezing or large tiles and floors subject to extremely heavy traffic, apply the adhesive in uniform fashion on the back of the tile (back buttering method) to ensure 100% coverage. In any case, use water to clean adhesive residue from tile surface and keep the tile joints clear before drying.

### Product specifications

Classified according to European standard EN 12004. Heavy duty cement-based adhesive in accordance with group C2E


2012
EN 12004
Improved, cementitious adhesive for tiling, with extended open time. C2E

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### Technical features

**Form:**  
white, dry mortar

**Mortar density:**  
1,4 kg/L

**Mixing water:**  
≈7L / 1 bag of 25kg

**Mix pot life:**  
approximately 4 hours

**Open time:**  
30 minutes (EN 1346)

**Application temperature:**  
+5°C to +35°C

**Time for minor adjustments:**  
30 minutes

**Bonding strength EN 1348 (N/mm<sup>2</sup>)**

Adhesion to concrete 28 days :  
≥1,0

Adhesion after being heated:  
≥1,0

Adhesion after immersion to water:  
≥1,0

Adhesion after freezing / thawing cycles:  
≥1,0

**Temperature resistance:**  
-40° C to +90° C

**Joint filling on walls:**  
after 4-6 hours

**Joint filling on floors:**  
after 24 hours

**Ready to use:**  
after 7 days

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### Notes

The BAU A25 adhesive presents VOC (volatile organic compound) emissions < 20 µg/m³

### Consumption

1.5- 4kg m²

### Storage

Preferably in shady and roofed locations, low in moisture, for at least 12 months.

### Packages

Heavy duty paper bags, 25kg each. Pallets, 1200 kg or 1500 kg.

### Precautions and safety

The product contains cement and is classified as an irritant. No special precautions are necessary for product application except for standard precautions applicable to all construction operations, i.e. using gloves and goggles; preventing prolonged skin contact; etc. In case of eye contact, immediately wash with plenty of water and seek medical advice if necessary. Collect empty bags and plastic covers and dispose of in refuse bins designated for this purpose.

### Notes

Technical details, properties, recommendations and information on BAUSKIN products are supplied in good faith. They are based on the company's research and experience, provided that they are stored and applied under normal conditions. As the method of using materials as well as project and environment conditions are beyond the control of the company in each individual application setting, the product user is held solely responsible for the result of application. No responsibility under any legitimate relationship can be substantiated against the company, based on the information set out hereunder. Product users are advised to refer to the latest revision of the technical manuals available.

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