

# BAU A30 FLEX

**Multi-purpose flexible tile adhesive for all types of substrates and application conditions. Ideal for large format tiles.**

## Description

High-performance, flexible, polymer-modified cement-based tile adhesive with high level of deformability, excellent adhesion to surfaces and high thixotropy. Ideal for fixing tiles on all types of surfaces (brick, concrete, render, and demanding substrates such as swimming pools, old tile layer, underfloor heating) and all types of tiles (ceramic, porcelain, vitrified tiles, mosaics and natural hard stone, marble, granite). Ideal for large-format tiles. For very demanding applications requiring resistance to cracking from thermal changes, frost and moisture.

## Materials:

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

## Substrates:

- ☐ Underfloor heating
- ☐ Concrete
- ☐ Cement screed
- ☐ Mosaic
- ☐ Cement based waterproofing materials
- ☐ Floors clad with old ceramic tiles and granite
- ☐ Lightweight concrete
- ☐ Plaster
- ☐ Brickwork
- ☐ Light structural elements etc.

## Highly absorbent 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 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.

## Low absorbing substrates

Surfaces that are smooth and non-absorbent should be prepared with reinforcing adhesion primer **BAU LOCK** 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.



## Mixture preparation

Prepare the material in a suitable container; first pouring approximately  $\frac{3}{4}$  of the required quantity of water and then gradually adding the contents of the bag, whilst stirring slowly with an electric mixer. Then add water until a uniform mixture with the required makeup is obtained. The quantity of mixing water written on the packaging is only exemplary. You may add a commensurate quantity of water for more or less thixotropic composition, depending on the application at hand. Adding more water than the prescribed ratio may result in reduction of coating thickness during curing, and a reduction of the strength of the mortar. We recommend regular stirring without adding water.

## Instructions for use

Apply the mixture on the substrate using a notched spatula. To ensure improved adhesion on the undercoat surface, spread a thin coat of adhesive with the smooth side of the spatula; immediately afterwards apply the desired thickness of adhesive with the notched edge of the spatula. In case dust is settled on the rear of the tiles, we recommend washing with clean water. Within 30 min, 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.

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Minor adjustments to alignment can be made within 30 min from 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 rear side 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 a 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 the tile surface and keep the joints clear before drying.

Water required for wall applications approx. 7,5 L

Water required for floor applications approx 8,0 L

## Product specifications

Classified according to European standard EN 12004. Heavy duty cement-based adhesive in accordance with group C2TE S1

## Notes

The BAU A30 FLEX adhesive presents VOC (volatile organic compound) emissions < 20 µg/m<sup>3</sup>

## Consumption

1.5- 4kg m<sup>2</sup>

## Storage

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

## 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:**  
up to 30 minutes

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

**Time for minor adjustments:**  
up to 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

**Derfomability:**  
≥ 2mm

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

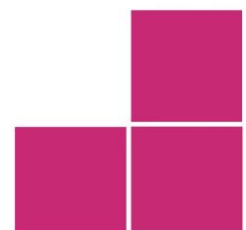
**Joint filling on floors:**  
after 24 hours

**Ready to use:**  
after 3 days

**Slip**  
≤0.5mm (T)

**Application thickness:**  
up to 20mm

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## General application guidelines

- Intended for Professional Use.
- Abide by any applicable Standard and National Regulations
- Do not use the adhesive to cover substrate anomalies greater than 15 mm.
- Environmental conditions, ventilation, substrate and application material absorbency are factors that may differentiate the adhesives' workability and curing time.
- Use a notched trowel suitable for the tile dimensions and required bed thickness.
- Guarantee a full-bed of adhesive without voids in all external applications.
- When applying tiles in gypsum & cement boards, always make sure that they are firmly fixed on the appropriate profile, prior to any tile installation. For underfloor heating applications, perform the required test heating cycles of the mortar prior to application according to standard EN 1264-4 clause 4.4.
- If necessary, ask for the safety data sheet.

## 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. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

## Notes

Technical data, 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. Given that in each case of application, the use of the materials and the conditions of the project as well as the overall environment, cannot be controlled by the company, the sole responsibility for the result lies with the end user of the product. No liability under any legal relationship can be established against the company, based on the information listed within this document. The present edition of this Technical Data Sheet automatically cancels any previous editions.

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