

Technical Datasheet

BAU A20

Professional, cement-based, high bonding power adhesive

Description

Cement based adhesive. Suitable for ceramic tile installation.

Application examples:

For bonding wall or floor ceramic tiles on concrete, cement screed, plaster, brick surfaces etc. In indoor and outdoor areas. Classified as C1 type adhesive, according to European Directive EN 12004 Common, highly porous substrates as well as especially absorbent tiles will result in reduction of adhesive application, patching and setting times. The result is poor tile bonding and development of cracks on adhesive substrate. **BAU A20** guarantees a mortar with self - regulated water release and increased workability.

Materials:

- Claddings comprising of absorbent ceramic tiles
- Ceramic mosaic and pavers
- Decorative mosaic with rear reinforcing mesh

Substrates:

- Concrete
- Cement screed
- Lightweight concrete
- Plaster
- Bricks
- Light structural elements, etc.

Elastification

The elastification of the adhesive is necessary on substrates subject to vibration or extreme contraction - expansion, i.e. floors with underfloor heating, rooftops, balconies etc. **BAU A20** can be mixed with **BAU L40** acrylic emulsion to obtain an adhesive with increased elasticity and adhesion. It also increases open bonding time on highly absorbent substrates. Rates for mixing with water: 1-2 parts **BAU L40** with 1 part water.

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.

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 a primer, or slight wetting of substrates – without saturation – in order to reduce water absorption and to improve adhesive workability

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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 20 minutes, EN 1346)
Application temperature: +5° C to +35° C
Time for minor adjustments: Up to 20 minutes
Bonding strength EN 1348(N/mm²) Adhesion to concrete 28 days: ≥1.0 Adhesion after being heated: ≥0.5 Adhesion after immersion in water ≥0.5
Temperature resistance: -30° C to +80° C
Joint filling on walls: after 4-6 hours
Joint filling on floors: after 24 hours
Ready to use: after 7 days

Mixture preparation

The material must be prepared in a suitable container; first pouring approximately . of the required quantity of water and then gradually adding the contents of the bag, whilst stirring with an electric mixer at low speed. Then add water until a uniform mixture with the required makeup is obtained. The quantity of mixing water written on the packaging is only indicative. 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.

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Instructions for use

Apply the mixture to the substrate using a serrated metal spatula (No 4 - No 10). 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 20min, 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 20min 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 C1

Notes

The BAU A20 adhesive presents VOC (volatile organic compound) emissions < 20 µg/m³

Consumption

1 .5- 4 k g /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. Consult instructions for safe use indicated on product packaging. For more information please refer to the material safety data sheet of the specific product.

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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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