

BAU STAR gel

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

Description

High-performance and highly deformable cementitious adhesive with unsurpassed adhesion to surfaces. Suitable for high demanding cases of resistance, cracking, intense contractions and excellent durability in frost and humidity conditions as well as for tile bonding of all types and all dimensions and weights on walls and floors. Ideal for surfaces of concrete, cement mortars, cementitious screeds, plasters and additionally, for the most demanding substrates such as old tile floors, underfloor heating installations, mosaics, swimming pools, gypsum boards, cement-based sealing materials, metal surfaces and generally, surfaces, which require high levels of adhesion and deformability. It shows a highly thixotropic behavior during application and low slip resistance when tiles are placed on vertical surfaces. It offers an extended open time for higher speed and security during placement. It is classified as a reinforced C2TE S1 adhesive according to the European Directive EN 12004.

Special characteristics

- For high demanding adhesions
- For spaces, that are subjected to contractions and vibrations, such as underfloor heating, facades, terraces, balconies, industrial spaces, etc.
- High water resistant (permanent immersion, ideal for wet spaces and swimming pools)
- Applications on successive tile placements
- Resistance flexibility during successive temperature changes
- Anti-frosty
- Exceptionally high resistance to deformations, strains and strikes without cracks
- For indoor and outdoor application, urban, commercial and industrial use
- Bigger surface coverage than a simple adhesive (>10%)
- Extremely low VOC emissions. It supports the LEED certification program
- It is classified in category A1 as a completely non-combustible material
- For bonding and leveling on uneven substrates, adhesive's layer thickness up to 15 mm
- Zero shrinkage-seating when curing
- 100% recyclable material as inert material

Tile types

Specially designed for ceramic tiles of all types, porcelain tiles, clinker, cotton, ceramic granite (marble type), ceramic tiles, large tiles, natural stones, heat insulating and soundproof panels etc.



Application examples

Indoor and outdoor bonding of tiles and leveling on walls and floors

Substrates

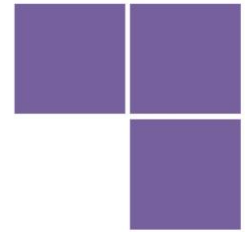
- Underfloor heating
- Cement-based sealing materials, such as BAU S11 and BAU S10 and plastic dispersions
- Floors lined with old tiles and granite
- Mosaic
- Concrete
- Cement mortars
- Gypsum plasters
- Traditional cement plasters
- Insulating panels
- External thermal insulation systems
- Lightweight concrete
- Gypsum board and cement board
- Metal surfaces

Surface preparation

We ensure flat and stable surfaces that have been completely dried and free of shrinkage. Remove rotten, detached parts, contaminated oil and dust. We close and repair any possible large voids and cracks.

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High absorbency substrates

For surfaces exposed to intense solar radiation and during very hot summer days or on highly absorbent substrates such as lightweight surfaces, it is recommended to apply a layer of BAU L40 primer (Latex), diluted with water or the slight wetting of the substrates without limiting the water to reduce water absorbency and improve the workability of the adhesive.

Low absorbency substrates

For smooth and non-absorbent surfaces, it is recommended to be prepared with a BAU LOCK adhesive primer or to proceed to a chemical cleaning. Failure to do so may result in mechanical friction, hammering or engraving of the surface.

Preparing the mix

The material is prepared in a container by first throwing about $\frac{3}{4}$ of the required amount of water and adding the contents of the bag gradually, by stirring with the use of a low-speed electric stirrer. Then, add water until the mixture is homogeneous with the desired workability. The amount of mixing water is indicative, and you can add a similar amount of water for more or less thixotropic composition depending on the case. For a low thickness application or full wetting, add approximately 8.5 lit/1 bag 23 kg. For high thickness application or wall grouting, add approximately 7lit / 1 bag 23kg.

Applying the mix

Apply the mix to the substrate by using a notched trowel. To achieve good adhesion, first spread a thin layer of BAU STAR on the substrate using the straight edge of the trowel. Immediately after, apply the desired thickness of BAU STAR using a suitable notched side of the trowel. Careful checks must be made to ensure that a skin does not form on the surface of the spread adhesive, which should stay fresh. It is not necessary to wet the tiles before installing them. Only in case of very dusty backs it is recommended to dip the tiles in clean water. Within 30 minutes, tiles should be installed under a firm pressure to ensure a good coverage of the adhesive. Unfavorable weather conditions (strong sun, wind, high temperatures, etc.) or highly absorbent substrates can reduce the open time, even to just a few minutes. Check regularly the surface of the adhesive by using your fingertips to avoid a film creation. In case something like that happens, remove the dried part and apply again a new layer of the adhesive.

Within 30 minutes after the installation of tiles, small corrections and fixes can be made. If this time limit is exceeded and changes still need to be made, remove the tile, clean the surface from the adhesive and finally, install it again in the right place. If the surface is anomalous or a thicker layer of adhesive is required, apply a new layer of

adhesive of the required thickness and a second layer on the back side of the tile

General warnings

Do not use the adhesive to cover substrate abrasions larger than 15mm. Temperature, ventilation and absorbency of the substrate and the material to be used, may vary the workability and coagulation times of the adhesive. Use a notched trowel, suitable for the dimensions of the tile. For the installation of tiles on facades, the substrate must provide a tensile strength $\geq 1,0 \text{ N / mm}^2$.

For the installation of large-sized tiles ($>1600\text{cm}^2$) or for outdoor floors or walls, floors that must be levelled at installation or subject to heavy loads or underfloor heating, it is recommended to spread the adhesive twice.

For the installation of tiles on gypsum boards and cement boards, boards must be rigidly anchored on fitting metal profiles. In case of underfloor heating, fulfill any necessary tests for the heating of the floor mortar, prior to the installation, in accordance with the instructions of EN 1264-4, section 4.4.

BAU STAR is not used in wood, plastic materials or carpet. Material for professional use.

Consumption

1.5 – 4.0 kg/m²

Product specifications

Classification according to European standard EN 12004. Enhanced cement based adhesive according to the C2TE S1 group

Notes

BAU STAR releases VOCs of gaseous organic compounds $< 20 \mu\text{g} / \text{m}^3$.

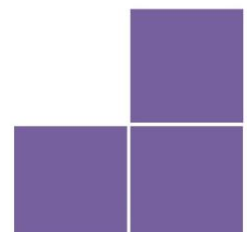
Safety instructions

BAU STAR contains cement and is characterized as irritant. When in contact with eyes, rinse with plenty of water and if necessary, seek medical attention. It is recommended to use protective gloves and goggles and to take the usual precautions for handling chemicals. For further and complete information about the safe use of our product, please refer to the latest version of our Safety Data Sheet.

Packaging

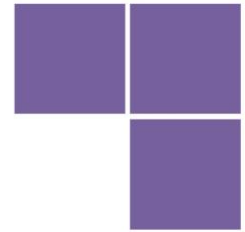
Paper bags of 23kg. Palette of 1380kg

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Technical features

Form:

white, dry mortar

Mortar density:

1.4 kg/L

Mixing water:

≈7,0 – 8,5 L / 1 bag of 23kg

Pot life:

approximately 4 hours

Open time:

up to 30 minute

Application temperature:

+5°C to +35°C

Ready for use:

After 3 days

Bonding strength EN 1348 (N/mm²)

Adhesion to concrete, 28 days: ≥1.0

Adhesion after heat ageing: ≥1.0

Adhesion after water immersion: ≥1.0

Adhesion after freezing/thawing cycles: ≥1.0

Ready for grouting on walls:

After 4 – 6 hours

Ready for use on floors

after 24 hours

Application thickness

Up to 20mm

Storage

BAU STAR can be stored for at least 12 months in shady, dry places.

Warning

Although the technical details and recommendations contained in this product data sheet correspond to the best of our knowledge and experience, all the above information must, in every case, be taken as merely indicative and subject to confirmation after long-term practical application; for this reason, anyone who intends to use the product must ensure beforehand that it is suitable for the envisaged application. In every case, the user alone is fully responsible for any consequences deriving from the use of the product. Please refer to the latest version of the Technical 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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