

BAU A40 HF

Ultimate performance, ultra-flexible adhesive for all types of tiles and substrates for indoor and outdoor

Description

BAU A40 HF is an ultra-flexible cement-based tile adhesive offering ultimate bonding and superior resistance to moisture and frost at all times. It has extended open time for easier and faster installations and zero vertical slip for tile applications on walls. It is ideal for all types and sizes of tiles (absorbent and less absorbent), natural stone, decorative bricks and applications on any substrate and especially to those subject to severe expansions/contractions or vibrations, whether indoors or outdoors. Classified as a glue type C2TE S2 in accordance with European Directive EN 12004.

Materials:

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

Substrates:

- ☐ Underfloor heating
- ☐ Brick walls
- ☐ Cement screed/ concrete/cement base mortars (1)
- ☐ Plaster and Rendering (3)
- ☐ Smooth prefabricated concrete
- ☐ Lightweight blockwork (1) (2)
- ☐ Cement and Plaster boards (1) (2) (3)
- ☐ Cement based waterproofing materials
- ☐ Fiber Cement (1)
- ☐ Old layer of ceramic tiles (4)
- ☐ Wooden Floor (5)
- ☐ Hard Natural Stone (5)

(1) Provided the surface is sufficiently flat.

(2) Prime with diluted 1:1 **BAU L40** latex with water

(3) In wet conditions (e.g. in showers) tank out with **BAU S11, BAU S10, BAU S10G**

(4) Prime one layer of Super grip 1:1 with water

(5) Only with the use of uncoupling membrane

Note: Certain types of natural stone (i.e. limestone, thin marble, travertine and some granite) may be susceptible to water staining. In this case, use of a **BAUSKIN** rapid-setting white adhesive is recommended.

*Further applications possible by adding **BAU L40** latex to provide flexibility, increased adhesion and reduce water permeability.

Not suitable for

Not suitable for metal, painted surfaces, glass/metal tiles with water-sensitive coating on back, plywood walls as well as moisture sensitive natural stone.



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 (e.g. 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 tilling adhesive.

Low absorbing substrates

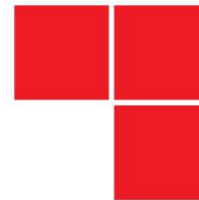
Surfaces that are smooth and non-absorbent should be prepared with reinforcing adhesion primer **BAU LOCK** or chemical cleaning. Otherwise you can proceed to mechanical abrasion, hammering or shaping the surface and then, if it is necessary, smoothing by appropriate products.

Mixture preparation

The adhesive must be prepared in a suitable container, by first pouring the required quantity of water and then gradually adding the contents of the bag, whilst stirring with an electric mixer at low speed (under 300 rpm). The mixture should be mixed until a uniform lump-free homogeneous mortar is achieved. The mixture must be left to rest for about 2-3 minutes and then stirred slightly again.

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Water required for wall applications approx. 7,5 L

Water required for floor applications approx. 8,0 L

The quantity of water to be added, indicated on the packaging, is an approximate guide. It is possible to obtain mixtures with variable thixotropic consistency, according to the intended use. Adding much more water (>10%) than the prescribed ratio may result in reduction of the coating thickness during curing, and subsequently in a reduction of the strength of the mortar. Regular stirring (every 45-60 min) without adding water is recommended.

Note: The pot life / setting time mentioned will vary slightly with the outside temperature. Higher temperature results in shorter; lower temperature results in longer life and time. Do NOT use in temperatures below 5°C or over 35°C.

Instructions for use

Apply the adhesive on the substrate using the appropriate notched metal trowel, according to needed bed thickness and comb to the required bed thickness, ensuring that the ribs of the adhesive all run in one direction and not in a circular pattern. To ensure improved adhesion onto the substrate, first spread a thin coat of adhesive with the smooth side of the trowel and immediately apply the desired adhesive thickness with the notched edge of the trowel, depending on the type and size of the tile to be installed. If the back of the tiles is dusty, we recommend washing with clean water. Within 20-25 min, fix tiles one by one and press them to ensure firm contact. The adhesive may be applied in a bed thickness of 2 - 6 mm thick or even up to 20 mm in limited localized areas. If fixing large/heavy-patterned tiles, apply additional adhesive on the tiles back side (back buttering method). For tiles installation: press the tile firmly into the ribs of the adhesive and into position with a slight twisting/sliding action to ensure the optimum adhesive contact with the back of the tile. For mosaics installation: use a rubber tile float to press mosaics into the adhesive and beat into the required position. To guarantee maximum adhesion it is necessary to apply a layer of adhesive sufficient to cover the entire back of the coating material. Always check and clean the back of the tiles if dirty; we recommend washing with clean water. Fix tiles/mosaics before the adhesive forms skin (typically more than 25 min at 20 °C, which greatly depends on the surface porosity and atmospheric conditions). In case skin has formed on the adhesive, remove the adhesive and apply a new fresh layer. Always discard any adhesive that has begun to set and never add further water. It is always important before fixing the tiles, to ensure that the substrate is leveled (SR1) as per section "Surface Preparation" above. When using larger format tiles, it is essential that the substrate is as level as possible, ideally to better than SR1, as this will avoid excessive bedding out of adhesive and will reduce installation time.

Since 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, it is important to always 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. 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. Occasionally lift a tile/mosaic to check adhesive's surface contact on back of the tile/mosaic. When using the solid-bed method, make sure to leave no voids behind the tiles. Occasionally lift a tile/mosaic to check adhesive's surface contact on back of the tile/mosaic. When using the solid-bed method, make sure to leave no voids behind the tiles.

Leave adequate joints between individual tiles. Create elastic expansion joints:

- ≈10 m² for outdoors applications
- ≈25 m² for indoors applications and
- every 8 m long, for long narrow applications.

Respect all structural, fractionizing and perimeter joints present in the substrate.

Clean off surplus adhesive from the tile face and between tile joints before the adhesive has dried, with water. After the adhesive has dried it will require mechanical methods to be removed.

Product specifications

Classified according to European standard EN 12004.

Heavy duty cement-based adhesive in accordance with group C2TE S2.

Notes

The BAU A40 HF adhesive presents VOC (volatile organic compound) emissions < 20 µg/m³.

Consumption

1.5- 4 kg/m²

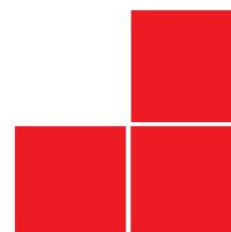
Storage

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

Packages

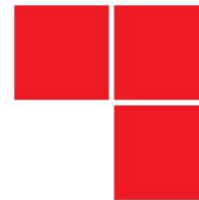
Heavy duty paper bags, 25kg each. Pallets, 1500 kg.

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Technical features

Form:

white, dry mortar

Mortar density:

1.4 kg/L

Mixing water:

≈7,5 -8,0 L / 1 bag of 25kg

Mix pot life:

approximately 5 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/mm²)

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

Slip

≤0.5

Defomability:

≥ 5 mm

Application thickness

Up to 20mm

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 details, properties, recommendations, and information on BAUSKIN products are supplied in good faith. They are based on the company's research and experience, provided 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.

Exclusive distribution for Greece:

BAUFOX Ltd

Email: info@baufox.com

www.baufox.com

Exclusive distribution for Cyprus:

ALTO CEMENTOCHEMICA K.A. Ltd

Email: info@altocy.com

www.altocy.com

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