

Note on English translation / Hinweise zur englischen Fassung

This is a translation of the technical data sheet valid in Germany.

All stated details and properties are in compliance with the regulations of the German standards and building regulations. They are only applicable for the specified products, system components, application rules, and construction details in connection with the specifications of the respective certificates and approvals.

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Plaster and Façade Systems

2014-06

Knauf Flex-Fliesenkleber adhesive

Adhesive mortar for bonding ceramic lining materials onto ETICS

Product description

Cementitious, synthetically enhanced flexible adhesive made of mineral binders, aggregates and additives.

Order information

25 kg bag

Material no. 00433428

Storage

Store the bags on wooden pallets in a dry environment. Can be stored for approx. 12 months.

Quality

In compliance with EN 12004, the product is subject to initial type testing and continuous factory production control. Furthermore, the product is subject to external monitoring and bears the Ü marking as well as the CE marking.

Field of application

System-tested flexible adhesive for bonding ceramic linings as a component of the Knauf WARM WALL Keramik system (Allgemeine Bauaufsichtliche Zulassung/National Technical Approval Z-33.46-424).

Properties and added value

- Deformable, cementitious flexible adhesive C 2TES1 acc. to EN 12004
- Tensile adhesion strength $> 1.0 \text{ N/mm}^2$ according to EN 1348
- Complies with emission class EMICODE EC 1 PLUS (R)
- For outdoor applications
- For manual application
- Reaction to fire A1
- Reduced dust
- Highly modified
- Very stable
- Hydraulic setting
- Flexible
- Grey
- Low-chromate in accordance with directive 2003/53/EC, GISCODE ZP 1

K512a.de Knauf Flex-Fliesenkleber adhesive

Adhesive mortar for bonding ceramic lining materials onto ETICS

Application

Substrate	Pretreatment
SM300	None

Preparation

Cover easily-soiled building components before application in accordance with Code of Practice "Abklebe- und Abdekarbeiten für Maler- und Stuckateurarbeiten" issued by the Bundesverband Ausbau und Fassade. Protect weather-exposed surfaces from precipitation and direct sunlight.

All substrates must be stable, dry, even and free of grease and dust as well as free of any residual substances that may reduce the adhesion.

Mixing

Application by hand:

Mix to a lump-free and application ready consistency in a clean bucket with clean and cold water. Mixing water ratio approx. 1 kg for 0.30 litres. A mixer with a speed of 600 RPM with a corkscrew or double-disk agitator. After a maturing time of approx. 3 minutes, mix again thoroughly and apply within 2 hours.

Do not attempt to mix water to fresh adhesive that is starting to set. Clean the machines and tools with water immediately after use.

Application

Only apply as much adhesive as can be worked within the adhesive open time of approx. 30 minutes to push in or apply ceramic tiles into the fresh adhesive mortar bed.

Ceramic linings permissible with the Knauf WARM WAND Keramik system are tiles or panels of the groups AI, BI_a, BI_b, AII_a and BII_a acc. to EN 14411. They must be frost-resistant acc. to EN ISO 10545-12. Furthermore, brick slips and clinker strips that meet the requirements for facing bricks or tiles acc. to DIN 105-100 may be used.

The demands on the cladding and the surface dimensions, pore radii volumes and sizes as well as the water absorption can be taken from the WARM WALL system approval Z-33.46-424.

Ceramic linings must be tested and approved for application on ETICS from the manufacturer with respect to their material properties and colour. Bonding is in accordance with EN 12004 using the floating and buttering method. Apply 2 - 3 mm Flex-Fliesenkleber adhesive onto the fixing surface using an 8 mm notched trowel. Spread adhesive across the entire rear surface of the ceramic lining and push into the fresh mortar bed directly. Clean the joints immediately afterwards.

Machines / equipment

A mixer with a speed of 600 RPM with a corkscrew or double-disk agitator.

Application temperature / climatic conditions

Do not apply material at air and/or substrate temperatures below +5°C and above +25 °C. Protect fresh adhesive from frost and rapid drying.

Special notes

Apply according to DIN 18157-1, VOB part C as well as the generally recognized building engineering rules and valid guidelines.

As soon as a skin starts to form on the flexible adhesive applied to the wall, the adhesion properties of the adhesive are considerably reduced.

Safety instructions and disposal

See Safety Data Sheet.

Technical data

EN 12004

Reaction to fire:	A1	EN 13501-1
Initial tensile adhesion strength:	≥ 1.0 N/mm ²	EN 1348
Tensile adhesion strength after heat ageing:	≥ 1.0 N/mm ²	EN 1348
Tensile adhesion strength after water immersion:	≥ 1.0 N/mm ²	EN 1348
Tensile adhesion strength after freeze-thaw cycle:	≥ 1.0 N/mm ²	EN 1348
Adhesive open time:	approx. 30 minutes	EN 1346

The stated technical data were evaluated acc. to the respective test standards. Deviations under site conditions are possible.

Material requirement / efficiency

Layer thickness mm	Consumption kg/m ²	Yield m ² /bag
2 - 3	3.0 - 4.0	6.3 - 8.3

The exact consumption can only be determined with a test application on the individual object.

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