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Tile adhesive *universal*

for universal use

moisture and frost-resistant

indoor and outdoor use



General product description

Universal, flexible thin-bed mortar based on a hydraulic bonding agent. Normal drying time. Ideal for laying ceramic tiles and slabs on screeds with underfloor heating, terraces and balconies and for applying and laying wall and floor tiles indoors and outdoors. Water and frost-resistant, tested as C2 TE S1 or, when coated with wedi 370, as S2 in accordance with DIN EN 12004.

Applications

wedi 320 is suitable for applying and laying wall and floor slabs, tiles, small, medium and glass mosaic, half tiles and quarter tiles, natural and synthetic stone slabs, plasterboard and tile elements as well as wedi building elements (rigid foam elements laminated with cement on both sides) in thin-bed mortar in accordance with DIN 18157 on lime and cement plasters, cement screeds, concrete, prefabricated concrete elements, plasterboard, gypsum plasters, aerated concrete, mastic asphalt and insulating boards as well as on the alternative wedi sealing systems. wedi 320 is specifically recommended for full-surface bonding of wedi building boards.

Ideal for bonding stoneware tiles, for bonding tiles to tiles and for laying ceramic tiles and slabs on screeds with underfloor heating and anhydrite floating screed etc.

The requirements for residual moisture content by CM measurement in accordance with current ZDB information sheets must be observed.

Coating the product with wedi 370 creates a highly malleable adhesive (S2) with improved, waterproof properties e.g. for applying and laying ceramic coverings on problematic, easily deformable

surfaces and on concrete and masonry surfaces (at least 3 months old) that are still contracting. Mortar modified in this way is particularly suitable for laying ceramic coverings on wedi Balco building boards.

See Technical Values for details of the dosage.

Product properties

wedi 320 high-quality tile adhesive is characterised by its stability under load and coverage, its creamy consistency, ease of use and long open time. The quality of wedi 320 is documented by the tested product properties C2 TE in accordance with DIN EN 12004. When combined with wedi 370, increased malleability S2 in accordance with DIN EN 12004 can be achieved. See product data sheet for wedi 370.

Surface requirements

All surfaces must be solid, load-bearing, even and non-deformable. They must be free of dust, dirt, loose objects and separating agents such as oil, grease, wax, varnish and paint.

Highly absorbent, mineral surfaces (powdery cement plasters, gypsum plasters, anhydrite screeds etc.) must be primed with wedi 110. Any sinter layers must be removed first.

Smooth, non-absorbent surfaces (e.g. old tiles) and old paint, carpet adhesive etc. that cannot be removed must be primed with wedi 120 adhesive and contact primer.

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The current ZDB information sheets on floor coverings on heated floor structures must be observed when bonding to screeds with underfloor heating.

If in doubt, test in an inconspicuous corner!

The residual moisture content must not exceed the following values:

Cement screeds:	2.0 %
Calcium sulphate screeds:	0.5 %
Heated calcium sulphate screeds:	0.3 %
Gypsum-based plasters:	1.0 %

(measured using a CM meter)

Magnesite-based screeds must be primed using wedi 130.

Processing

Add 25 kg of powder to approx. 7.5 litres of cool water in a clean container and mix vigorously and evenly (spiral mixer) until a smooth, lump-free and paste-like mortar is formed. If wedi 370 is also used, the quantities of this and the water must be calculated. Allow the mixture to mature for at least 3 minutes. Then stir it again. The processing time at normal temperature is approx. 5 hours.

First apply wedi 320 with a smoothing trowel to create a contact layer on the surface. Then use a suitable grooved spatula or trowel to comb through the product to ensure full-surface bonding of the tiles. Depending on the absorbency of the surface and the air temperature, the adhesive can be pre-applied in one go for a large area (approx. 1–1.5 m², open time approx. 20–30 minutes).

Under no circumstances must the mortar bed be allowed to form a skin (test with your finger). Depending on the absorbency of the tiles, they can be realigned for up to approx. 15 minutes.

Wait for at least 24 hours or until the adhesive has hardened before starting to grout the tiles.

Note for subsequent work

wedi 320 must not be processed at air and surface temperatures of less than +5 °C or more than +30 °C.

N.B. the adhesive will take longer to bond on non-absorbent surfaces and low-absorbency tiles.

The adhesive bed must be allowed to dry out properly by taking appropriate measures to protect it from the weather or by allowing sufficient drying time before grouting in order to guarantee permanent adhesion of the adhesive bed in damp areas outdoors and indoors.

Technical values

wedi 320:

Mixing ratio:

approx. 7.5 litres of water to 25 kg of powder

Processing time:

approx. 5 hours

Tile application time (open time): approx. 20–30 minutes (depending on absorbency and temperature)

Realignment time: up to approx. 15 minutes

Hard enough to walk on/grout after approx. 24 hours.

wedi 320 + wedi 370:

Mixing ratio:

To create a highly flexible mortar:

8 kg wedi 370 to 25 kg wedi 320 or

0.32 kg wedi 370 to 1.0 kg wedi 320

Processing time:

approx. 20 minutes

Tile application time (open time): approx. 20–30 minutes (depending on absorbency and temperature)

Realignment time: approx. 5 minutes

Wall surfaces can be grouted after approx. 6–12 hours

Floor surfaces are hard enough to walk on/can be grouted after approx. 24–48 hours

Suitable for underfloor heating

Processing (air) temperature:

min. +5 °C, max. +30 °C

Thickness of adhesive bed:

up to max. 5 mm

Consumption

4 x 4 grooves: approx. 1.3 kg/m²

6 x 6 grooves: approx. 2.2 kg/m²

8 x 8 grooves: approx. 2.8 kg/m²

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Packing

25 kg paper sack

Storage

Store in a dry place, can be stored for 12 months in the original packaging.

Safety notice



R38 Irritating to skin, R41 Risk of serious damage to eyes, S2 Keep out of the reach of children, S22 Do not breathe dust, S24 Avoid contact with skin, S26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice, S36 Wear suitable protective clothing, S37 Wear suitable

gloves. Low chromate content in accordance with TRGS 613.
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