

wedi 320 | Universal tile adhesive

- For universal use
- Ideal for wedi building systems
- C2 TE S1 (in accordance with DIN EN 12004)



General product description

Flexible thin-bed mortar based on a hydraulic bonding agent which can be used anywhere. Normal drying time.

Applications

wedi 320 is a hydraulic binding agent-based, highly polymer-modified quick-drying thin-bed mortar in accordance with DIN 18157 for full surface setting and laying of wedi building boards, wedi Fundo and wedi Subliner. In addition, it can be used for the bonding of tiles, glass mosaics and split tiles as well as natural and artificial stone slabs. The flexible adhesive can also be used on plasters made from cement, lime or gypsum, screed, concrete and prefabricated concrete elements (at least 3 months old), gypsum fibre boards, aerated concrete, mastic asphalt and insulating boards as well as the wedi sealing system.

In addition, wedi 320 is suitable for bonding of stoneware tiles, tile on tiles and for the laying of ceramic tiles and slabs on screeds with underfloor heating and anhydrite floating screeds etc. (The requirements in the "Ceramic tiling and slabs, natural and artificial stone on heated floor constructions" data sheet, 2007 edition, must be fulfilled.)

Product features

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.

 0432	Haftzugfestigkeit nach Trockenlagerung $\geq 1,0$ N/mm ²
	Haftzugfestigkeit nach Warmlagerung $\geq 1,0$ N/mm ²
wedi GmbH Hollefeldstraße 51 · D-48282 Emsdetten	Haftzugfestigkeit nach Wasserlagerung $\geq 1,0$ N/mm ²
09 Art-Nr. 110025320 DOP_wedi_320_0002	Haftzugfestigkeit nach Frost-Tau-Wechsel-Lagerung $\geq 1,0$ N/mm ²
wedi 320 Fliesenkleber universell	Brandverhalten: Klasse E
DIN EN 12004, 12002 Fliesenkleber für Wand u. Boden, innen & außen C2 TE S1	Durchbiegung $\geq 2,5$ mm

Surface requirements

All surfaces must be solid, load-bearing, even and not deformable. Surfaces must be free from dust, dirt, loose components and separating agents such as oil, grease, wax, varnishes and paint.

Highly absorbent, mineral surfaces (powdery cement plasters, gypsum plasters, anhydrite screeds* etc.) must be primed with dispersion primer. Any layers of sinter must be removed in advance. Smooth, non-absorbent surfaces (e.g. old tiles) and old paint, carpet adhesive etc. that cannot be removed must be primed with adhesive and contact primer.

For bonding on heated screeds, the applicable notices of the Federation of the German Construction Industry (ZDB) concerning floor coverings on heated floor constructions must be observed.

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

In case of doubt, the product should previously be tested on a small area!

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 %
(measurement with CM instrument)	

Magnesite screeds must be primed with epoxy resin primer.

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 synthetic resin 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 a maximum of approx. 15 minutes.

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

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.

** If you would like to use large-sized tiles and boards, please speak to our application technology department.*

Technical properties

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
Suitable for underfloor heating	yes
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

Packing

25 kg paper sack

Storage

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

Safety notice



Danger



Contains Portland cement and calcium hydroxide

H315 Causes skin irritation. H318 Causes serious eye damage. H335 May cause respiratory irritation. P102 Keep out of the reach of children. P261 Avoid inhalation of dust. P264 Wash hands and face thoroughly after use. P271 Use outside or in well-ventilated areas only. P280 Wear protective gloves/protective clothing/eye protection/face protection. P305+P351+P338 IN CASE OF CONTACT WITH EYES: Carefully rinse with water for a few minutes. Remove contact lenses where possible. Continue to rinse. P405 Keep locked up. P501 Take the contents/container to a national special waste collection point.

Information about finishing and application options for wedi products, technical recommendations or advice and other information provided by our employees (technical usage advice) is accurate to the best of our knowledge, but is non-binding and is given with the exclusion of any liability. It does not exempt our customers and their buyers from carrying out their own checks and trials on the suitability of the products for the intended processes and purposes.