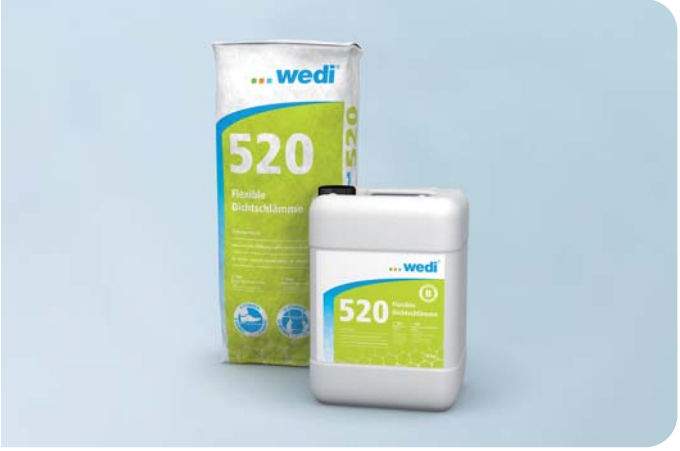
Technical datasheet

wedi **520** | Flexible sealant

- Two-component
- Quick drying sealant
- Waterproof and bridges cracks
- For indoor and outdoor use on walls and floors



General product description

Flexible, two-component sealant, crack-bridging, hydraulic-setting, for flexible sealing under ceramic tiles on balconies, terraces and in showers, suitable for indoor and outdoor use with general technical approval.

Applications

wedi 520 flexible sealant is suitable for flexible sealing under tile coverings:

- For balconies, on terraces, in wash rooms, as well as in toilet and shower facilities
- In combination with ceramic coverings for indoor and outdoor use
- On walls and floors in both humid and wet areas
- Officially approved for composite waterproofing in frequently wet areas suitable for moisture exposure classes A, B, A0 and B0 according to the Building Rules List A, as well as the "composite waterproofing" ZDB information sheet in load classes A and B
- For use with water impact category W0-I to W3-I in accordance with DIN 18534-1
- Interior seals for industrial water tanks up to 2 m water depth

Product features

- Two-component, easy to mix. Both components are provided in the optimal component ratio
- Ageing-resistant, not susceptible to environmental influences
- Crack-bridging, provides good protection in the case of subsequent surface cracking.
- Waterproof and frost-resistant, for universal indoor and outdoor use
- Licensed together with wedi 320 in a building-approved system as an alternative sealing in combination with ceramic tiles and building boards

Surface requirements

Mineral surfaces made from concrete, lightweight concrete, cellular concrete (interior), cement and lime cement plaster, plasterboard and gypsum fibre board, masonry cement, flush-jointed, level masonry (not brick-lined masonry), cement screeds, calcium sulphate screeds (anhydrite and anhydrite flowing screeds), dry screeds, old ceramic tiles are suitable.

All surfaces must be firm, bearing, level and not deformable. Surfaces must be free from dust, dirt, loose components and separating agents such as oil, grease, wax, varnishes and paint. Existing cracks must be sealed with a suitable material.

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Highly absorbent, mineral surfaces (slightly sandy cement plasters, gypsum plasters, anhydrite screeds, etc.) as well as gypsum fibre boards must be primed with dispersion primer. Any sinter layers must be removed prior to use.

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 use 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.

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-based screeds must be primed with the epoxy resin.

Processing

For all uses, a minimum dry layer thickness of 2 mm is required. 2.4 mm wet layer thickness corresponds to 2 mm dry layer thickness. The product must be applied in at least two applications, each with full area coverage.

Mixing the product:

10 kg liquid components are provided and mixed in a machine with 20 kg of powder lump-free components until a homogeneous processing consistency is achieved. For partial quantities, the optimal component ratio is to be kept to.

The first layer is applied using a trowel with surface thickness as a scratch layer. Corners and chipped edges must be fully covered. Pipe openings and floor drains must be sealed with wedi sealing sleeves, whilst wedi sealing tape must be used for corner joints and floor and wall junctions. For this purpose, use wedi sealing tape in the first layer and cover with the second layer. Joints on bath tubs and shower basins are to be manufactured using the wedi butyl tub sealing tape.

Once the first layer has dried after approx. 2 hours, apply the second layer with a 6 mm toothed comb and smooth. Max. layer thickness of 4 mm. The first layer must be checked for imperfections.

Once the surfaces treated with flexible wedi 520 sealants are hard enough to walk on, they can be tiled with ceramic covers and wedi 320 tile adhesive after approx. 12 hours. Tiles for outdoor use must be laid without voids as far possible.

Please note:
Always apply wedi 520 on the side of the structure exposed to water. Material that has begun to set must not be diluted with water or mixed with fresh wedi 520. No additives must be added to wedi 520. wedi 520 is not approved for drinking water tanks. A fresh coating must be protected from extreme thermal load, direct exposure to sunlight, drafts, frost and rain.

Instructions for subsequent work

Tools and cleaning tools: Bricklayer's brush, smoothing trowel, serrated trowel, lambskin paint roller, brush. Clean tools in water while wet. Hardened material can only be removed mechanically.

Technical properties

Composition:
Powder component: Special cement mortar with selected admixtures and additives
Fluid component: modified acrylate dispersion

Mixing ratio:
10 kg liquid component to 20 kg powder component

Density of mixed material:
ca. 1,36 kg / l

Curing time: approx. 3 minutes

Processing time (at +20 °C / 50 % relative humidity):
approx. 45 mins

Processing temperature:
+5 °C to +25 °C

Number of work days: at least two

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Drying time:
approx. 3 hours per layer applied

Rain resistance:
at 5 °C approx. 6 hours, at 20 °C approx. 3 hours

Load-bearing capacity (at +20 °C and 50 % relative humidity)
Can be walked on after approx. 6 hours*
Ceramic covers can be applied after approx. 12 hours*
Can be exposed to contact with water after approx. 3 days*

** Higher temperatures and humidity will reduce the specified times, lower temperatures will extend them.*

Consumption

Consumption per m² (for surface sealing):
wedi 520 component A (powder) at 2 mm dry layer thickness (approx. 2.4 mm wet layer thickness): approx. 2.8 kg/m².
wedi 520 component B (fluid) at 2 mm dry layer thickness (approx. 2.4 mm wet layer thickness): approx. 1.4 kg/m²

Consumption per linear metre (for joint sealing):
wedi 520 component A (powder) at 2 mm dry layer thickness (approx. 2.4 mm wet layer thickness): approx. 0.28 kg/linear metre.
wedi 520 component B (fluid) at 2 mm dry layer thickness (approx. 2.4 mm wet layer thickness): approx. 0.14 kg/linear metre

Colour

grey

Packing

Powder component: 20 kg paper sack
Fluid component: 10 kg can

Storage

Store dry and frost-free, closed in original container; can be stored for 12 months.

Safety notice

The product is rated and marked in accordance with CLP regulations.
H315 causes skin irritation
H318 causes serious eye damage
H335 may cause respiratory irritation

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