

# 510

## Flexible sealant



**1-component**

**waterproof and bridges cracks**

**indoor and outdoor use**



### General product description

Flexible, 1-component sealing, bridges cracks, hydraulically drying, for flexible sealing under tile coverings on balconies, terraces, in shower facilities, both indoors and outdoors with a general approval certificate.

### Applications

wedi 510 flexible sealant is suitable for flexible sealing under tile coverings:

- On freely abutting balconies, terraces and shower facilities.
- Combined with ceramic coverings indoors and outdoors.
- For walls and floors in humid and wet areas.
- Approved for creating composite sealing elements in very wet areas in accordance with moisture load classes A1, A2 and B according to the Building Rules List.
- For coating semi-rigid industrial water containers or swimming pools with water depths of up to 5 m.
- For use with moisture load classes A01, A02 and B0 in accordance with ZDB information sheet „Composite sealing elements“, January 2005 edition.

### Product properties

- 1-component, wedi 510 is only mixed with water on the building site.
- Quick and easy to process.
- Hardens without residual stress or cracks at the specified layer thickness.
- Good surface adhesion.
- Bridges cracks, good reliability in the event of surface cracks that occur after application.
- Frost-proof transport capacity.
- Environmentally friendly due to mineral base.

### Surface requirements

Mineral surfaces of concrete, lightweight concrete, porous concrete (indoors), cement and lime-cement plasters, plasterboard and gypsum fibre boards, plaster and masonry binders, full-mortar bedded even masonry (no mixed masonry), cement screeds, calcium sulphate screeds (anhydrite screeds and anhydrite floating screeds), dry screeds, old ceramic coverings.

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. Existing cracks must be injected with a suitable materials.

Highly absorbent, mineral surfaces (powdery cement plasters, gypsum plasters, anhydrite screeds etc.) and plasterboard 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.

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The current ZDB information sheets on floor coverings on heated floor structures must be taken into account for use on heated screeds.

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

At least 2 coats of the sealant must be applied, each of which should cover the entire area. The coating must have the required minimum dry layer thickness of 2 mm everywhere.

### Mixing the material:

Depending on the application method, put the quantity of mixing water (see Technical Data table) and wedi 510 into a large mixing container and mix using a suitable stirring or mixing tool as attachment to a drill until a lump-free mortar is formed. Allow wedi 510 to mature for approx. 3 minutes then stir again briefly.

The first application acts as an primer coat which is applied generously over the entire surface with either a brush or a scraper. Carefully cover corners and broken edges.

Seal pipe ducts and floor drains with wedi sealing collars, corner joints and floor/wall joints with wedi sealing tape. Lay the wedi sealing tape in the first coat and cover it with the second coat.

Once the 1st coat has dried, apply at least two coats either with a 6-grooved trowel and then smooth the ridges or apply it with a large brush or a lambskin roller.

the wedi 510 flexible sealant is hard enough to walk on and lay ceramic coverings with wedi tile adhesive after 24 to 48 hours. When laid outdoors, the coverings must largely be laid with no cavities.

### N.B.:

Always apply wedi 510 on the water-facing side of the structure. Material that has already set must not be diluted with water or mixed with fresh wedi 510. No additives to wedi 510 are permitted. wedi 510 is not suitable for drinking water containers. The fresh coating must be protected against extreme heat, direct sunlight, draughts, frost and rain.

## Note for subsequent work

Tools and tool cleaning: masonry brush, smoothing trowel, grooved trowel, lambskin roller, brush. Clean tools in water while wet.

## Technical values

### Mixing ratio:

For use with a brush/roller: approx. 6.0 litres of water to 20 kg of powder, for use with a trowel: approx. 5.0 litres of water to 20 kg of powder

### Density of the mixed material:

approx. 1.5 kg/l

### Maturing time:

approx. 3 minutes

### Processing time (at +20 °C/50 % rel. humidity):

approx. 1.5 to 2 hours\*

### Processing temperature:

+5 °C to +25 °C

### Number of applications:

at least two

### Drying times:

approx. 4–5 hours per coat\*

### Rain resistance:

at +5 °C: approx. 10 hours

at +20 °C: approx. 5 hours

### Load-bearing capacity (at +20 °C and 50 % rel. humidity):

Can be walked on after approx. 24 hours\*

Ceramic coverings can be laid after approx. 1–2 days\*

Waterproof after approx. 7 days\*

\* The specified times will be reduced by high temperatures and humidity and extended by low temperatures and humidity.

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### Consumption

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wedi 510 at 2 mm dry layer thickness (approx. 2.6 mm wet layer thickness): approx. 3.0 kg/m<sup>2</sup>.

### Colour

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grey

### Packing

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20 kg paper sack

### Storage

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Store in a dry place, can be stored for up to 6 months when closed in the original packaging.

### Safety notice

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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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