

CL 50

Alternative Sealant

Waterproof, flexible sealing under tiles

CHARACTERISTICS

- ▶ admitted for use by the construction supervising authority A1, A2/B
- ▶ ready for covering after 2 hours
- ▶ crack-bridging
- ▶ for indoor and outdoor use
- ▶ two components

Tested at the German Institute of Construction Engineering, test-certification nos. P-220001711-03-01, P-220001711-03-02, ZDB Information Sheet, MPA, NRW/Germany

SCOPE OF USE

Interior walls and floors:

For seamless and jointless sealing of damp and wet rooms subject to moisture under ceramic coverings, e.g. bathrooms, showers, washrooms, toilets in both domestic and public or commercially used areas with/without floor drain, in compliance with the information sheet "Sealing in combination with tiles and slabs used as lining and covering materials", issued by the German Tile Trade Association (published Dec. 2004) resp. according to the test guidelines of the DIBt (German Institute of Structural Engineering). In the case of floor constructions with insulating layers, CL 50 Alternative Sealant is applied directly onto the load-distribution layer (screed).

Also suitable for use on heated screeds. CL 50 is especially useful if rapid work is required and tiles are to be laid on the same day. CL 50 is also suitable for use in swimming baths (water load type B, DIBt).

Outdoor areas:

For protecting cement screeds and concrete surfaces on patios and balconies against moisture and efflorescence. Do not use on old ceramic coverings, mastic asphalt or paintwork.

SUBSTRATE PREPARATION

CL 50 Alternative Sealant adheres to all dry, solid, load-bearing, dimensionally stable, clean surfaces which are



ready for covering and free of substances which can cause separation (e.g. separating agents, loose particles, dust, efflorescence, dirt). Brush off powdering, dusty surfaces and prime them with CT 17 or CN 94. Paint coatings must be removed. The top surface must be sufficiently level and free of penetrating cracks.

CL 50 is suitable for use on mineral surfaces, e.g. plasters of mortar groups P II and P III, concrete, fully pointed brickwork, cement screed, mastic asphalt screed, dry screed made of cementitious fiber boards, and also on gypsum wallboards, gypsum plasterboards, fibrous plasterboards, gypsum-bound levelling compounds, gypsum planks, aerated concrete slabs, cavity wallboards made of lightweight concrete, old ceramic coverings, sandwich-type elements made of closed-cell rigid foam with mortar coating. In the case of calcium-sulphate-bound flow screeds (mechanically roughened, freed from dust and primed with CT 17 or CN 94), anhydrite screeds and gypsum-bound levelling compounds, the moisture content must be $\leq 0.5\%$ by weight. With gypsum plasters (P IVa/b and P V) the moisture content must be $\leq 1.0\%$ by weight. Gypsum plasters must be sufficiently stable and surface load-bearing. Medium thickness of the plaster layer must be 15 mm. Plaster layers of ≤ 10 mm are not permissible. The

plaster surface must not be smoothed down but should be scraped off. Penetration of moisture from the substrate, e.g. via an external wall, must not be possible. After application of the sealant, surface deformations must be excluded as far as possible.

APPLICATION

CL 50 Flexi Sealant consists of 2 components: a powder and a liquid-pasty component. First pour the pasty liquid into a bucket, then add the powder and stir with a slow-rotating stirrer (approx. 400 rpm) until the mixture is completely free of lumps. If only part of the pack is used, observe a mixing ratio of 1 : 1 parts by weight. After a maturing time of 5 minutes, give the mixture another stir so that a spreadable consistency is achieved. Spread the Flexi Sealant evenly over the entire surface. A brushable consistency can be achieved by adding approx. 2 % of water (0.2 litres on 10 kg). For producing a waterproof protection layer it is necessary to apply two sealing coats with a dry layer thickness of at least 2.0 mm. The first sealing coat should be applied with a flat brush or paste brush. After approx. half an hour, visible by a change in colour, the second CL 50 coat can be applied. Approx. 1.5 hours after application of the second coat, the surface is ready for covering, e.g. with CM 13 Rapid Flexi Mortar, CM 17 Adhesive Mortar "Flexi", CM 18 Easy Flow Mortar or other products. When using CM 12 Thin/Medium Bed Mortar, add 4 kg of CC 83 Flexi-Enhancer Additive on 25 kg of CM 12. Expansion and edge joints must be sealed off with CL 52 Sealing Tape, for wall connections and floor drains use the CL 53 Wall Sealing Collar or CL 54 Floor Sealing Collar.

Expansion joints in the construction of swimming baths must be sealed off with CP 50 Joint Sealing Tape. The sealing tape or the sealing collars are placed into the first coat and embedded into the Flexi Sealant with the second coat.

PLEASE NOTE

Rear surface moisture and exposure to chemicals must be permanently excluded. Outdoor surfaces must have a slope of at least 2.5 % but must be free of puddles. Moisture-sensitive surfaces such as anhydrite screeds and gypsum plasters are not suited for use in public and industrial areas. Observe the warnings-, safety- and waste advice given in the safety data sheet.

Should you need support or advice, please consult our advisory service for architects and craftsmen on the hotline numbers

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TECHNICAL DATA

Base:	Cement combination with natural mineral fillers and high-quality synthetic resin dispersion	
Mixing ratio:	1 : 1 parts by weight	
Maturing time:	approx. 5 minutes	
Pot life:	approx. 2 hours	
Flash-off (1st coat):	approx. 0.5 hours	
Flash-off time (2nd coat):	approx. 1.5 hours	
Application temperature:	+5 °C to +30 °C	
Crack-bridging ability: DIBt:	> 0.5 mm	
Waterproofness: DIN 1048 T 5	impermeable to water (7 days, 1.5 bar)	
Amount required for two coats: DIBt:	dry layer thickness: 2.0 mm	amount: 4.0 kg/m ²
Shelf life:	Approx. 12 months if stored in a tightly sealed container, in frost-free, cool and dry conditions. Use product in opened containers as soon as possible.	

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Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organisations and trade associations as well as the respective standards of the German Standards Institute (DIN). The aforementioned characteristics are based on practical experience and applied testing. Warranted properties and possible uses which go beyond those warranted in this information sheet require our written confirmation. All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative air humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

The information contained herein, particularly recommendations for the handling and use of our products, is based on our professional experience. As materials and conditions may vary with each intended application, and thus are beyond our sphere of influence, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for their intended use. Legal liability cannot be accepted on the basis of the contents of this data sheet or any verbal advice given, unless there is a case of wilful misconduct or gross negligence on our part. This technical data sheet supersedes all previous editions relevant to this product.

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