

# CL 51

## 1-component sealing film

**Waterproof, flexible sealing under tiles  
and coverings**



### CHARACTERISTICS

- ▶ admitted for use by the construction supervising authority A1
- ▶ waterproof
- ▶ suitable for brushing, rolling and spreading
- ▶ crack-bridging
- ▶ for indoor use

**Test certificate no. 220004783-05,  
220004784-05, MPA, NRW/Germany**

### SCOPE OF USE

#### Interior walls and floors:

For seamless and jointless sealing under ceramic coverings in damp and wet areas, e.g. in private bathrooms with bathtubs, showers, toilets and kitchens, acc. to the information sheet "Sealing in conjunction with tile linings and coverings ..." issued by the German Tile Trade Association.

In the case of floor constructions with insulating layers CL 51 is applied directly onto the load-distribution layer (screed). Also suitable for use on heated screeds.

### SUBSTRATE PREPARATION

CL 51 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, sand, binding agents, efflorescence, dirt).

Brush off powdering, dusty surfaces and prime them with CT 17 or CN 94. The top surface must be sufficiently level and free of penetrating cracks.

CL 51 is suitable for use on mineral surfaces, e.g. plasters of mortar groups Plc, PII and PIII, concrete, fully pointed brick-work, cement screed, mastic asphalt screed, dry screed made of cementitious fiber boards and on gypsum wallboards, gypsum plasterboards,



gypsum fiber boards, gypsum planks, gypsum-bound levelling compounds, aerated concrete slabs, cavity wallboards made of lightweight concrete, old ceramic coverings, sandwich-type elements made of closed-pored 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  $\leq 10$  mm are not permissible.

The plaster surface must not be smoothed down but scraped off. Penetration of moisture into the calcium-sulphate-bound substrate, e.g. via an external wall, must not be possible.

After application of the sealant, the substrate must deform only to a limited extent, i.e. surface deformations must be excluded as far as possible. Critical substrates, e.g. paint coats, must be primed with CN 94. In these cases make sure to observe the instructions given in the CN 94 Information Sheet as special requirements must be fulfilled.

## APPLICATION

CL 51 is applied undiluted using a lambskin roll, brush or spreader. To produce a water-proof protective layer at least 2 coats with a total thickness of min. 0.5mm (1.0 to max. 1.5 mm old value) are required. The second coat can be applied after only approx. 2 hours. About 4 hours after application of the second coat the surface is ready for covering, e.g. with CM 90 EasyFlex PLUS, CM 17 adhesive mortar "Flex" S1, CM117 Flexible adhesive mortar or CM 18 EasyFlex. Settlement and edge joints must be secured with CL 82 sealing tape, wall junctions and floor drains with CL 83/84 sealing collars for walls/floors. The sealing tape or collar is placed into the first coat and embedded with the second sealing coat.

## PLEASE NOTE

Use CL 51 only in dry conditions and at temperatures of +5 °C to +30 °C.

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.

Please refer in particular to DIN 18 352, DIN 18 157 and the information sheets issued by the Central Association of the German Building Trade (ZDB).

Use other Ceresit products for sealing swimming baths and permanently wet 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:	Modified synthetic resin dispersion
Density:	1.4 kg/dm <sup>3</sup>
Consistency:	pasty
Flash-off time (1st coat):	approx. 2 hours
Flash-off time (2nd coat):	approx. 6 hours
Application temperature:	+5 °C to +30 °C
Ready for tile covering:	after approx. 6 hours after the 2nd coat
Wet film thickness with a coat of 1.6 kg/m <sup>2</sup> :	approx. 1.2 mm
Dry film thickness with a coat of 1.6 kg/m <sup>2</sup> :	approx. 0.5 mm
Amount required for two coats:	at least 1.4 kg/m <sup>2</sup>
Waterproofness: (DIN 1048 T 5, 7 days, 1.5 bar)	impermeable to water
Crack-bridging ability:	≥ 0.75 mm
Colour:	concrete grey
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.

The above information, in particular recommendations for the handling and use of our products, is based on our professional knowledge and experience. As materials and conditions may vary with each intended application and thus are beyond our control, we strongly recommend that in each case sufficient tests are conducted to check the suitability of our products for the intended application method and use. Legal liability cannot be accepted on the basis of the contents of this technical data sheet or any verbal advice given unless there is evidence of wilful intent or gross negligence on our part.

This technical data sheet supersedes all previous editions.

Apart from the information given in this technical data sheet, it is also important to observe the relevant guidelines and regulations of various organizations and trade associations as well as the applicable DIN standards.

All data given was obtained at an ambient and material temperature of +23°C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.



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