Ceresit

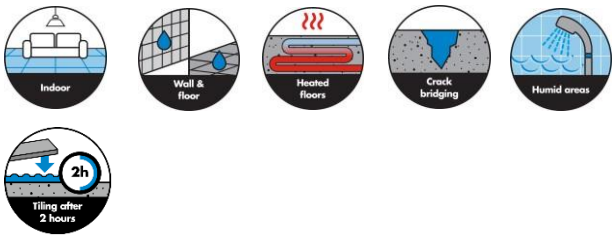
CL 51

EXPRESS 1-K

Fast drying, flexible, dispersion based waterproofing film Tested according ETAG 022

CHARACTERISTICS

- Protects substrates against moisture
- Waterproof and flexible
- Crack – bridging
- Does not contain solvents
- Laying tiles just 2 hours after applying the second layer
- Meets the light insulation type requirements



CERESIT_CL51_TDS_03_2024

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.
In the case of floor constructions with insulating layersCL 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, CT 19 or CN 94. The top surface must besufficiently level and free of penetrating cracks.

CL 51 is suitable for use on mineral surfaces, e.g. plasters of mortar groups PIc, 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 ≤ 0.5 % by weight. With gypsum plasters (P IVa/b and P V) the moisture content must be ≤ 1.0 % by weight. Gypsum plasters must be sufficiently stable and

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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 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 or CT 19. In these cases, make sure to observe the instructions given in the CN 94 /CT 19 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 ('Dry Film) are required. After the first application of the first coat the second coat can be applied after only approx. 1 hour. Drying time depends on temperature, absorbency of the substrate and air humidity. About 2 hours after application of the second coat the surface is ready for covering, e.g. with CM 90, CM 49, CM 22, CM 12
PLUS, CM 16, CM 17
Settlement and edge joints must be secured with CL 82/CL 152 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.
- Use other Ceresit products for sealing swimming baths and permanently wet areas like CL 50 Observe
- the warnings-, safety- and waste advice given in the safety data sheet.

OTHER INFORMATION

Should you need support or advice, please consult our advisory service for architects and craftsmen on the
contact information you will find on **the local Ceresit website.**

Apart from the information given here it is also important to observe the relevant guidelines, regulations and common standards of various organizations and trade associations. The afore mentioned characteristics are based on practical experience and applied testing. Confirmed properties and possible uses which go beyond those listed 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 and that the product itself is subject to local conditions such as amount of water and hardening. A product fromanother production site may differ.

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 willful misconduct or gross negligence on our part or unless there is a case of personal injury or death or a case of liability under the Product Liability Act.

This technical data sheet supersedes all previous editions relevant to this product. Please be aware that this Technical Data Sheet only relates to a product manufactured in the specific relevant production site.

TECHNICAL DATA

Base: dispersion	Modified synthetic resin
Bulk density:	1.4 kg/dm³
Flash-off time (1st coat):	approx. 1 hour
Flash-off time (2nd coat):	approx. 2 hours
Application temperature:	+5 °C to +30 °C
Ready for tile covering:	after approx. 2 hours after the 2nd coat
Wet film thickness with a coat of 1.1 kg/m²: approx. 1 mm Dry	
film thickness with a coat of 1.1 kg/m²: approx. 0.5 mmAmount	
required for two coats: at least 1.3 kg/m² Waterproofness:	
tested according EN 14891 (class DMP) EN 14891 – A. 7 (after	
7 days at 1,5 bar): watertight	
Certification:	ETAG 022
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.

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Ceresit CL 51

00492

EN 14891: 2012/AC:2012

Dispersion liquid-applied water impermeable products, resistant to contac with chlorinated water

Initial tensile adhesion strength	≥ 0,5 N/mm^2
Tensile adhesion strength after water contact	≥ 0,5 N/mm^2
Tensile adhesion strength after heat ageing	≥ 0,5 N/mm^2
Tensile adhesion strength after freeze-thaw cycles	≥ 0,5 N/mm^2
Tensile adhesion strength after contact with lime water	≥ 0,5 N/mm^2
Crack bridging ability under standard conditions	≥ 0,75 mm

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