Ceresit

CL 50

EN 14891

»SUPER EXPRESS 2-C«

Flexible waterproofing coating

CHARACTERISTICS

- Waterproof coating for private and commercial used areas like swimming pools, terraces, balconies etc.
- Installation of tiles after 3,5 – 4,5 h possible
- Crack bridging ability also at low temperature
- Easy to apply with roller, paint brush or trowel
- Solvent free

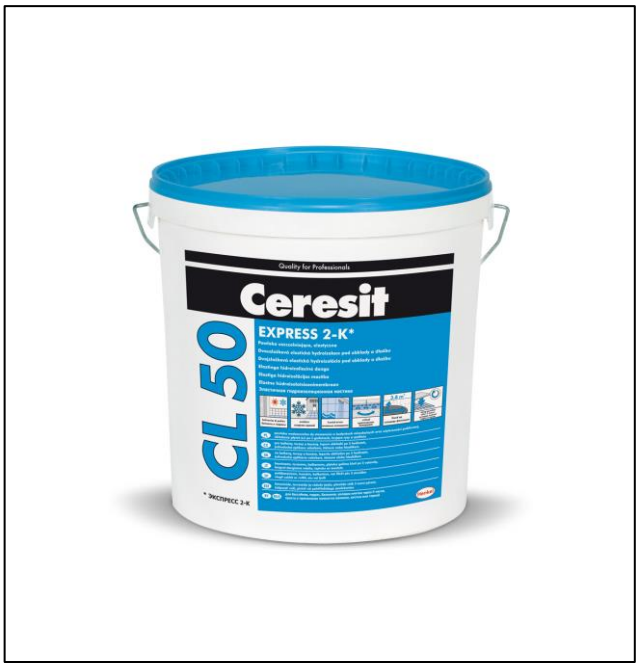
SCOPE OF USE

Ceresit CL 50 is used for waterproofing substrates before installing ceramic and natural stones coverings on top, inside and outside. The protective waterproof coating is recommended for areas that are permanently or temporarily exposed to moisture/water such as swimming pools, terraces, balconies, bathrooms, public showers, toilets, commercial kitchens, and rooms with floor drains. CL 50 »SUPER EXPRESS 2-C« can be applied on many substrates, including e.g. concrete, aerated concrete, cement and lime plasters, gypsum-based substrates, cement screeds, calcium sulfate screeds, heated floors, flush-jointed masonry and plasterboards.
Please note: Do not use CL 50 »SUPER EXPRESS 2-C« outdoors on old ceramic tiles, mastic asphalt or paint coats !

SUBSTRATE PREPARATION

CL 50 »SUPER EXPRESS 2-C« adheres to all dry, solid and sound substrates free of substances which may impair adhesion (e.g. oil, dust, dirt or release agents). Mechanically remove any dirt, loose layers, and paint coats. Powdering dusty surfaces should be cleaned with a brush and vacuum cleaner. Grind off calcium sulfate screeds (moisture content ≤ 0.5 %) and vacuum off the dust. Plasterboards must be prepared according to the manufacturer's recommendations.

Gypsum plaster surfaces must be sufficiently stable and loadbearing with a moisture content of ≤ 1.0 % by weight.



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. The substrates should be primed with Ceresit CN 94»CONCENTRATE« (diluted with water at a ratio of 1:3). Wait at least 2 hours until the primer has completely dried before applying the waterproofing coat.

APPLICATION

CL 50 consists of 2 components: powder (2 x 3,75kg bags) and a pasty liquid (5l bucket). First, pour the liquid into the bucket, then add the powder in the right mixing ratio and stir with a slow running stirrer (approx. 400 rpm) until the mixture is completely free of lumps. If only part of the pack is used, make sure to observe a mixing ration of 1.5 : 1 (powder : liquid) After a maturing time of 5 minutes, stir again until easy spreadable consistency is achieved. For producing a protective waterproofing layer It is necessary to apply two sealing coats with a dry layer thickness of at least 2.0 mm.

CERESIT_CL50_TDS_10_2023

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Quality for Professionals

(country specific regulation may varied) The first coat should be applied with a flate / paste brush or roller. Wait about 90 min (depends on substrate and temperature) until the first coat has set and changed colour before applying the next coat. The second coat should be applied crosswise to the first one by brush, roller or trowel. The thickness of a single layer of CL 50 should not exceed 1.0 mm. In wet rooms the coating should be reinforced along the edges and expansion gaps with the CL 152/ CL 82 / CL 89 sealing tape. The sealing tape should be placed into the first coat of CL 50 and embedded with the second one. Approx. 2 – 3 hours after application of the second layer, the surface is ready for the installation of ceramic tiles, natural stones, using e.g. CM 90, CM 17, CM 22, CM 16 etc.

PLEASE NOTE

It can be stored up to 12 months from the production date if stored in dry and cool conditions and in original and undamaged packages. Protect from frost!

Tools and fresh stains can be simply cleaned with water. Hardened material can only be removed mechanically.

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 from another 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 applications, 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:	Mixture of cements with mineral fillers and high-quality synthetic resin dispersion.
Mixing ratio:	**1,5 : 1** (A powder : B liquid) e.g. 1 bag of powder (3,75kg) should be mixed with half of the liquid component (2,5l)
Initial maturing time:	approx. 5 minutes
Working time:	approx. 60 min

Drying time of the first coat: approx. 90 min
Drying time of the second coat: approx. 120 – 160 min
(Drying time are measured at 23° and 50% air humidity on porous substrates like gypsum board and concrete plates – lower temperature extend the drying time up to 30%)

Laying Tiles:
Wall & Floor after approx. 120 – 160 min following the application of the last coat

Application temperature:	from +5 to +25 °C

Approximate consumption (two coats):

protection	required thickness of CL 50 after drying	quantity of CL 50 [kg/m²]
damp-proofing and waterproofing; sealing from water without pressure	at least 2.0 mm	approx. 2.6
waterproofing; sealing from pressing water and water under pressure, terraces	at least 2.5 mm	approx. 3.2

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Ceresit CL 50

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EN 14891: 2012

Cementitious liquid-applied water impermeable product with improved crack bridging ability at low temperature (-20°C) and resistant to contact with chlorinated water beneath ceramic tiling (bonded with C2 adhesive in accordance with EN 12004)

Initial tensile adhesion strength	≥ 0,5 N/mm²
Tensile adhesion strength after water contact	≥ 0,5 N/mm²
Tensile adhesion strength after heat ageing	≥ 0,5 N/mm²
Tensile adhesion strength after freeze-thaw cycles	≥ 0,5 N/mm²
Tensile adhesion strength after contact with lime water	≥ 0,5 N/mm²
Waterproofing	No penetration
Crack bridging ability under standard conditions	≥ 0,75 mm
Crack bridging ability at very low temperature (-20°C)	≥ 0,75 mm

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