

# CR 65



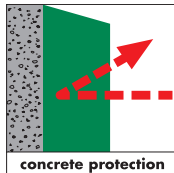
## Rigid 1-K cementitious waterproofing slurry

### CHARACTERISTICS

- ▶ waterproof
- ▶ water permeable
- ▶ suitable for drinking water tanks
- ▶ strong reduction of capillary absorption of water
- ▶ increases surface protection
- ▶ frost resistant
- ▶ economical application
- ▶ can be applied by brush, trowel or sprayed
- ▶ resistant to negative water pressure
- ▶ protects standard concrete structures



waterproofing



concrete protection

### SCOPE OF USE

#### Waterproofing

CR 65 is used on the horizontal and vertical surfaces of buildings, structural components and tanks

- for waterproofing against water loads
- for waterproofing monolithic water tanks from inside as well as drinking water tanks and swimming pools with a water depth of  $\leq 10$  m
- for subsequent waterproofing on the negative side
- for filling drill holes/cavities in combination with the silicifying fluid CO 81.

CR 65 can be used on cementitious substrates that are ready for coating and non-shrinking, non-deformable, and salt-free e.g.:

- structurally dense brickwork that is flush with the adjacent areas and has flush joints
- concrete, cementitious plaster and composite screeds.

In the case of possible mechanical loads operating on the slurry, such as pedestrian traffic, the CR 65 coating should be protected.



TDS No CR100 11.17 G3

Deformable substrates require the use of flexible materials, capable of covering cracks, such as: Ceresit CR 166. To immediately stop local water leakages, Ceresit CX 1 or CX 5 may be used.

#### Concrete protection

CR 65 is perfect prepared to improve concrete surface resistance, even having different concrete qualities and structures.

CR 65 passed the tests according to EN 1504-2 standard. Can be used as well as final layer on substrates without mechanical impact.

#### Hydroslide Effect

The Hydroslide Effect provides an optimal reduction of capillary absorption of water vs. other standard slurries.

It leads to a stronger reduction of aggressive substances dissolved in water (e.g. chlorides and de-icing salt) ensuring an excellent adhesion of subsequent layers.

## SUBSTRATE PREPARATION

The mineral substrate must be even, solid, load-bearing, clean, crack-free and free of substances that may impair adhesion. The surface must have a rough, open pored structure with good grip. All edges must be cut off or chamfered.

Cove all corners with a hollow moulding of at least 3 cm radius. Repair any defects, screed over rock pockets and fill mortar joints, with Ceresit mortar products. Enlarge the cracks and fill them with cement mortar alternatively with epoxy resin. If the brickwork is uneven with numerous projections and defects, produce a levelling render made of cement mortar. Ceresit CR 65 requires pre-wetting of the substrate before application, avoiding formation of puddles. When waterproofing wall and foundation areas indoors or outdoors, e. g. in the case of rear penetration of moisture, pre-treat the areas with CO 81 Silicifying Fluid. When waterproofing from negative side, the substrate must have sufficient mechanical strength.

## APPLICATION

Ceresit CR 65 is prepared with clean and clear water and is mixed until it becomes homogenous and free of lumps. The consistency of the mortar should be adjusted according to the application.

The quantity obtained must be applied within 2 hours. The first layer will be applied consistently with a brush on the wetted surface. When successive layers are applied, the next layer must only be applied when the previous layer is hardened, but still moist. Work must not be interrupted for more than 12 hours.

The freshly applied product must be protected against drying too fast.

The coating can be walked on after two days; however, even after complete hardening, the coating must not be directly exposed to heavy mechanical loads.

Keep the freshly applied coating in the wet conditions for at least 3 days (e.g. by periodic water spraying or wetting with a wet brush, using protection against draughts and direct sunlight). Protect Ceresit CR 65 against rain for at least 24 hours. Ceramic tiles, plasters or flooring can be applied on a layer of CR 65 after 7 days at the earliest from drying out too quickly, frost and precipitation. Installation of covers protecting from direct sunlight, draughts, rain and frost is recommended. Do not cure the mortar by pouring or spraying water.

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 influence, 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.

Works should be carried out in dry conditions, with ambient and substrate temperature from +5°C to +25°C. All data refer to the temperature of +23°C and relative air humidity of 55%. In different conditions, the material parameters can alter.

## PLEASE NOTE:

Protect the waterproofing coat against damage. Do not cover it with gypsums materials.

When covering the waterproofed surface with tiles, always use a tile adhesive of minimum quality C 2. CR 65 contains cement and produces an alkaline reaction with water. Therefore protect skin and eyes. If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes obtain medical advice.

The content of chromium VI less than 2 ppm over the life of the product.

Please make sure to observe the following technical information:

– CR 65 Safety Data Sheet for safety advice and disposal instructions

– Technical Data Sheets of other Ceresit products

## TECHNICAL DATA

Base:	a mixture of cement with mineral fillers and modifiers
Bulk density:	approx. 1.4 kg/dm <sup>3</sup>
Mixing ratio:	
– for brush or spray application:	6 – 7 l of water per 25 kg
– for trowel application:	5 – 6 l of water per 25 kg
– Filling:	7 – 8 l of water per 25 kg
Application temperature:	from +5°C to +25°C
Application time:	up to 2 hours
Pedestrian traffic:	after 2 days

	Required dry thickness of CR 65	Amount of CM 65 (kg/m <sup>2</sup> )
– damp-proofing	2.0 mm	approx. 3.0
– permeability	2.5 mm	approx. 4.0
– water column up to 10 m	3.0 mm	approx. 5.0
maximum thickness	5.0 mm	approx. 8.0
Shelf life:	Up to 12 months from the production date, if stored on pallets, in dry conditions, in original and undamaged packages.	



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Surface protection coating for concrete  
Application of a coating

Reaction to fire	F Class
Water vapour permeability	Class I, SD < 5 m
Capillary absorption and water permeability	w < 0,1 kg/m <sup>2</sup> *h <sup>0,5</sup>
Adhesion strength by pull-off test:	Inflexible systems with no traffic load ≥ 1,0 (07)b with traffic load ≥ 2,0 (1,5)b
Dangerous substances acc.	5.3 not included



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