

CR 65

Rigid Waterproofing Slurry

For waterproofing buildings, structural components and containers

CHARACTERISTICS

- ▶ High water impermeability, even be used on the "negative" side
- ▶ Permits diffusion
- ▶ Frost-resistant
- ▶ Suitable for drinking water tanks

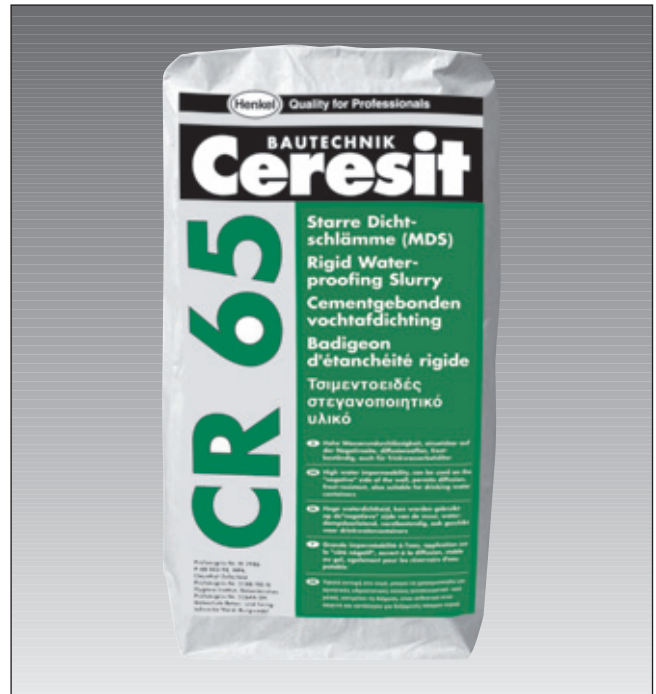
Test certificate no. P-AB 003-98, MPA, Clausthal-Zellerfeld/Germany
Test certificate according to DVGW-Arbeitsblatt W 270 no. W-175292-09-Ko
Test certificate according to DVGW-Arbeitsblatt W 347 no. W-172703-09-SI
Test certificate no. 53644/09, Güteschutz Beton- und Fertigteilwerke Nord, Burgwedel/Germany

SCOPE OF USE

- 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 ≤ 15 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 substrates that are ready for coating and non-shrinking, e. g.
- structurally dense brickwork that is flush with the adjacent areas and has flush joints
 - concrete
 - cement plaster
 - cementitious composite screeds.

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 4 cm radius. Repair any defects, screed over rock pockets and fill mortar joints, e. g. with CT 23 Repair Mortar or CN 91 Wall & Floor Repair Mortar.

Enlarge the cracks and fill them with cement mortar alternatively, pressure-grout the crack with CK 740 Epoxy Resin. If the brickwork is uneven with numerous projections and defects, produce a levelling render made of cement mortar. Make sure to thoroughly prewet the prepared substrate. 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

Sprinkle CR 65 into clean water and stir until completely free of lumps. The waterproofing coat must always consist of two layers.

First, apply a heavy coat of CR 65 with a well-loaded brush. The surface must either have been prewetted or pretreated with CO 81. The silicifying fluid must have soaked into the

substrate, but must be still wet. When the first layer has reached sufficient surface strength, prewet the substrate again and then spread the waterproofing slurry with a float or apply two thin slurry coats with a ceiling brush. The maximum layer thickness of each coat applied is 5 mm. If work is interrupted for more than 24 hours, add CC 81 Synthetic Resin to the slurry before applying the next coat. Protect the waterproofed surface against too rapid drying; keep it moist for at least 24 hours. Excess mortar can be removed with water while still fresh, but hardened material can only be removed mechanically.

PLEASE NOTE

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

When covering the waterproofed surface with tiles, always use a tile adhesive of minimum quality C2.

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.

Please make sure to observe the following technical information:

- CR 65 Safety Data Sheet
- Guideline for the planning and execution of waterproofing works on structural components using mineral waterproofing slurries (German Building Chemistry Association)
- DIN 18 195 Waterproofing of Buildings and Structures
- technical data sheets of other Ceresit products
- special information issued by the Builders Trade Association on GISCODE ZP 1.

Please refer to the CR 65 safety data sheet for safety advice and disposal instructions.

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

Material base:	cement combination with mineral fillers and additives (chromate-reduced)	
Bulk density:	approx. 1.5 kg/l	
Mixing ratio:	Trowellable consistency: approx. 5–5.5 l of water for 25 kg (approx. 1 p/v of water to 3 p/v of CR 65)	
Slurry consistency:	approx. 6–6.5 l of water for 25 kg (approx. 1 p/v of water to 2.5 p/v of CR 65)	
Filling of drill holes:	approx. 8 l of water for 25 kg	
Working time:	approx. 2 hours	
Application temperature:	5 °C to +30 °C	
Rainproof:	after approx. 4 hours	
Ready for foot traffic:	after approx. 2 days	
Ready for covering:	after approx. 7 days	
Water vapour diffusion resistance:	$\mu = \text{approx. } 600, s_d = 1.5 \text{ m (at 2.5 mm thickness)}$	
Impermeability to water: (DIN 1048, part 5)	impermeable up to 1.5 bars	
Bending tensile strength:	approx. 3 N/mm ² after 2 days approx. 6 N/mm ² after 28 days	
Compressive strength:	approx. 12 N/mm ² after 2 days approx. 28 N/mm ² after 28 days	
Required amount:		
Water load type	Layer thickness	Required amount
Ground moisture	2.0 mm	approx. 3 kg/m ²
Non-pressing water	2.5 mm	approx. 4 kg/m ²
Water tanks (water depth ≤ 15 m):	3.0 mm	approx. 5 kg/m ²
Maximum layer thickness	5.0 mm	approx. 8 kg/m ²
Colour:	grey	
Shelf life:	Approx. 12 months if stored tightly closed in a cool and dry place. Use up opened sacks as soon as possible.	

* The material quantities indicated above are minimum amounts and may increase depending on the workmanship employed. Rough or uneven substrates also cause a higher consumption.

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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