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Especially low dust!

# Ceresit

# CR 72

## Flexible Waterproofing Slurry 1C

**Flexible, cement-bound waterproofing slurry for watertight, flexible sealing under tiles and slabs and for crack-bridging waterproofing of buildings**

### CHARACTERISTICS

- ▶ Building regulations approved for moisture exposure classes A1/A2, B
- ▶ Easy to apply
- ▶ Up to 90 % less dust
- ▶ Highly flexible and reliable
- ▶ For indoor and outdoor use
- ▶ Rapidly ready for covering

**National Test Certificate nos.**  
**P-220003630-05-01/02/03,**  
**P-220003631-07, MPA-NRW/**  
**Germany**

### SCOPE OF USE

#### Composite waterproofing

##### Indoors on walls and floors:

For seamless and jointless waterproofing in damp and wet rooms under ceramic coverings, e. g. in:

- bathrooms
- showers
- sanitary facilities in private, public and industrially used areas with/without floor drain
- swimming baths

in compliance with the ZDB information sheets resp. test principles of the DIBt (German Building Technology Institute), building regulations approved for moisture exposure classes A1/A2, B. Particularly rapid work progress, ready for covering on the very same day. CR 72 can be used on mineral substrates, e. g. plasters of mortar groups P II and P III, concrete, fully pointed brickwork, cement screed, heated screed, mastic asphalt screed, dry screed made of cementitious fibre boards, gypsum wallboards, sandwich-type plasterboards, fibrous plasterboards, gypsum-bound levelling compounds, gypsum planks, aerated concrete slabs,



cavity wall slabs made of lightweight concrete, old ceramic coverings and sandwich-type elements made of closed-pored rigid foam with a mortar coating.

#### Outdoors:

For protecting terraces and balconies against moisture and efflorescence. Suitable for use on cement screeds, concrete surfaces and old, firmly adhering ceramic coverings.

#### Waterproofing buildings

##### Outdoors:

For waterproofing structures in direct contact with earth against ground moisture, non-accumulating and accumulating seepage water, non-pressing and pressing water (in compliance with DIN 18 195).

Suitable for:

- fully pointed brickwork acc. to DIN 1053 (flush joint surface, at least 28 days old)
- concrete acc. to DIN 1045 (at least 28 days old), cement and lime-cement plasters, cement-bound composite screeds (at least 28 days old)

- reinforced concrete structures with cracks of  $\leq 0.25$  mm width (acc. to DIN 1045), up to 3 m immersion depth (acc. to DIN 18 195)
- horizontal waterproofing of walls or the wall base point
- as protection against splash water in the socle/wall area on mineral and bituminous substrates.

#### Indoors:

For waterproofing

- monolithic water containers
- rainwater collection tanks made of reinforced concrete with a water depth of  $\leq 5$  m (cracks are limited to  $\leq 0.25$  mm width acc. to DIN 1045)
- bottom stone layers against water acting temporarily from inside during the construction phase.

When renovating old buildings or building components, CR 72 can be used for subsequent waterproofing on the negative side, but not when exposed to pressing water or to temporarily accumulating seepage water. Do not use on gypseous substrates.

## SUBSTRATE PREPARATION

### Composite sealing

The substrates must be dry, solid, load-bearing, dimensionally stable, clean, free of substances likely to impair adhesion (e. g. release agents, loose particles, dust, efflorescence, soiling) and ready for covering. Brush off powdering, dusty substrates with a broom and prime with CT 17 or CN 94. Completely remove old paint coats. The surface must be free of through-cracks. In the case of gypsum plasters (P IV a+b and P V), the moisture content must be  $< 1.0$  CM-%. The mean layer thickness of the gypsum plaster must be 15 mm. Plaster coats of  $< 10$  mm are not permissible. The plaster surface must not have been smoothed down or felt-finished. The ingress of moisture from the substrate, e.g. via an exterior wall, must be excluded.

### Waterproofing buildings

#### Positive side:

All substrates must be load-bearing and free from dirt, oil and grease. Mechanically remove sintered layers, cement paste, release agent residues or similar deposits. Before application of CR 72, chisel out static cracks of 2mm width and fill them with cement mortar or pressure-grout them with CK 740 Epoxy Resin. In a separate operation, surfaces with static cracks of 0.5 to 2 mm width must first be covered with a CR 72 slurry coat or a scratched rendering. Static cracks of  $< 0.5$  mm do not require special pretreatment. Cut off or chamfer all edges of less than  $45^\circ$  (chamfer width 4 cm). Cove corners by producing a scotia (hollow moulding) with a radius of at least 4 cm. Repair defects and gravel pockets. If necessary, repoint joints in the brickwork. In the case of uneven brickwork with numerous projections, defects etc., prepare a levelling render with cement mortar. Cut or grind off any slubs. Thoroughly prewet concrete, cement screed and cement plaster so that the absorbency is strongly reduced and the surface has a slightly damp appearance. Aerated concrete must be primed with a diluted slurry coat. For this purpose, mix CR 72 and additionally dilute it with 10 % water.

#### Negative side:

The substrates must be resistant to water or water pressure, load-bearing (adhesive pull strength  $> 0.5$  N/mm<sup>2</sup>), free of dirt, oil, grease and other substances likely to impair adhesion. Efflorescent salts (carry out a salt analysis!) as well as salt-infested plasters and mortars must be completely removed. Prepare cracks, edges and joints as described above for the positive side. Prewet absorbent substrates until they are slightly damp. Then apply CR 65 Waterproofing Slurry with a paste brush or other brush to provide a waterproof surface.

## APPLICATION

Mix CR 72 with clean clear water, using a slowly running stirring device (approx. 400 rpm) until the mixture is completely free of lumps. Leave to mature for 5 minutes, then mix again. Use a ceiling brush and brush on a first generous waterproofing coat. When the surface strength of the first coat is sufficient, build up the required layer thickness: either spread with a float in one single operation or apply two thin slurry coats. Excess mortar can be removed with water while still fresh; hardened material can only be removed mechanically.

### Composite waterproofing

Apply 2 coats of CR 72 until a dry layer thickness of at least 2.0 mm has been achieved. When the surface is ready for covering, ceramic coverings can be fixed e. g. with CM 18 EasyFlex, CM 17 Flexible Adhesive Mortar or CM 117 Flexi Thin Bed Mortar. Expansion and connection joints must be secured with CL 52 Sealing Tape, wall junctions and floor drains with CL 53 Wall Sealing Collar resp. CL 54 Floor Sealing Collar.

In the construction of swimming baths, expansion joints must be sealed with CP 50 Joint Sealing Tape. Embed the sealing tape or sealing collars into the first coat and then cover them with the second coat.

### Waterproofing buildings

Always protect the waterproofed area against too rapid drying, early exposure to moisture and frost. Do not wet the surface again during the drying process.

#### Vertical waterproofing on the positive side

Apply at least 2 fully covering coats (3 coats are required in the presence of pressing water). The coating must everywhere have the minimum layer thickness that is needed to resist the expected water load (see table). After hardening, CR 72 must be protected with insulation, drainage or protection boards etc. Do not cover with gypseous materials.

#### Horizontal waterproofing

Apply at least 2 layers of CR 72. The coating must everywhere have the minimum layer thickness that is needed to resist the expected water load (see table). The flexible slurry is ready for foot traffic after approx. 10 hours. CR 72 is not a wearing layer and must therefore be protected, e.g. by a screed.

#### Vertical waterproofing on the negative side

When the CR 65 slurry coat has reached sufficient surface strength (after approx. 6 hours), apply CR 72 in two coats until the required layer thickness has been achieved.

## PLEASE NOTE

Use CR 72 only in dry conditions, at temperatures of 5 °C to +30 °C and below 80 % relative air humidity. When used on the positive side, make sure that any rear surface moisture and exposure to chemicals is permanently excluded.

- Horizontal outdoor areas must have a slope of at least 2.5 %, without puddle formation.
- Do not mix with other substances, aggregates or binders.
- CR 72 contains cement and produces an alkaline reaction with moisture. Therefore protect skin and eyes. If contact occurs, rinse thoroughly with plenty of water. In case of contact with the eyes obtain medical advice.

Make sure to observe in particular the

- guideline for the planning and execution of waterproofing works on structural components in contact with earth using flexible waterproofing slurries (German Building Chemistry Association)
- information sheets issued by the ZDB (Central Association of the German Building Industry).

Please refer to the CR 72 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**

**Phone: +49 211 797 0**

**Fax: +49 211 798 2148**

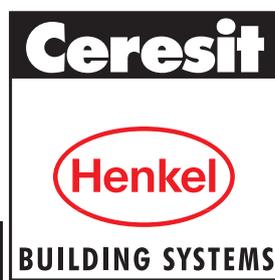
## TECHNICAL DATA

Material base:	cement combination with synthetic resin additive (chromate-reduced) with light-weight fillers and selected sands GISCODE: ZP 1		
Bulk density:	1.1 kg/dm <sup>3</sup>		
Amount of mixing water:			
Slurry/roll-on technique:	approx. 7.0 l water for 20 kg powder		
Screeding technique:	approx. 5.3 l water for 20 kg powder		
Maturing time:	approx. 5 minutes		
Working time:	slurry consistency approx. 40 minutes screeding consistency approx. 60 minutes		
Drying time (1st coat):	approx. 1-2 hours		
Drying time (2nd coat):	approx. 4 hours		
Rainproofness (brief drizzle):	approx. 3 hours		
Ready for covering/foot traffic:			
Walls:	after approx. 5-6 hours		
Floors:	after approx. 10 hours		
Exposure to water:	after approx. 5 days		
<b>Required amounts*:</b>	<b>Minimum layer thickness (mm)</b>		
	wet	dry	kg/m <sup>2</sup>
Composite sealing	2.7	2.0	3.0
<b>Waterproofing buildings</b>			
non-pressing water	2.7	2.0	3.0
pressing water	3.2	2.5	3.6
* The material quantities indicated above are minimum amounts and may increase by 0.5-1 kg/m <sup>2</sup> depending on the workmanship employed. Rough or uneven substrates also cause a higher consumption.			
Colour:	yellow-grey		
Shelf life:	Approx. 6 months if stored in a cool and dry place. Use up opened sacks as soon as possible.		

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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