NEW!

Ceresit

CR 83

Restoration Render "fine"

Mineral-bound restoration render, especially for damp, highly salt-contaminated interior and exterior walls

PROPERTIES

- ▶ High salt absorption and retention capacity
- ▶ Open to diffusion ("breathable")
- ▶ Up to 40 mm layer thickness if applied in 2 coats
- ▶ Easy to apply
- ▶ Suitable for machine application

SCOPE OF USE

The restoration render system complies with the requirements of the WTA Code of Practice 2-9-04/D "Restoration plaster systems" issued by the Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege (International Association for Science and Technology of Building Maintenance and Monuments Preservation).
CR 83 can be used for the repair and restoration of:
– damp and highly salt-contaminated exterior and interior walls
– salt-affected foundation areas and facades
CR 83 can also be used on difficult substrates of low strength, e.g. historic buildings.
Suitable for replacing damp, salt-containing plasters on internal basement walls, also in combination with subsequently applied horizontal waterproofing products (CO 81 Silicifying Fluid).
CR 83 can be used to produce layers of 10 to 40 mm thickness if applied in two coats.
Use CR 82 Base Coat and Levelling Render for producing layers of higher thickness.

SUBSTRATE PREPARATION

CR 83 adheres to all solid, load-bearing, clean, dry and slightly damp substrates free of substances that may impair adhesion. The surface must be rough and porous to ensure good adhesion. Existing coats and old, damaged plasters must be completely removed up to a height of at least 80 cm beyond the damage zone (visible area of moisture penetration and salt deposition) down to the structurally sound masonry.
Rake out loose mortar joints to a depth of approx. 20 mm and replace any missing or damaged bricks.
Pre-wet brickwork and concrete until the surface is no longer absorbent and appears to be slightly damp.
In order to ensure good surface key, apply a layer of CR 81 Spray Render (follow the instructions in the Technical Data Sheet of CR 81)
If layers of ≥ 40 mm are required, use CR 82 Base Coat and Levelling Render.

APPLICATION

CR 83 is applied manually or with a standard plastering machine after the first coat of spray render or other rendering coats have dried. When applying CR 83 by plastering machine, make sure to use a suitable after-mixer.

The addition of water depends on the machine type and the required working consistency.
For manual application, sprinkle CR 83 into clean, clear water and stir with a suitable mixing device until the mixture is homogeneous and free of lumps.

Application of CR 83 in 2 coats:
1st coat: Apply a layer of min. 10 mm and max. 20 mm. In the case of highly salt- and/or nitrate-contaminated masonry, the minimum layer thickness must be 15 mm.
2nd coat: The 2nd coat can be applied after the 1st coat has sufficiently dried. Apply the 2nd coat of CR 83 also with a min. of 10 mm and a max. of 20 mm thickness.
Up to a layer thickness of 20 mm, CR 83 can be applied in one coat: In the case of highly salt- and/or nitrate-contaminated masonry, the total minimum layer thickness must be 25 mm.
Smooth the surface horizontally and vertically with a plasterer's float to produce a level finish. After that, the surface can be textured in the desired way (felting, rubbing).
If a total layer thickness of ≥ 40 mm is required, produce the 1st layer with CR 82 Base Coat and Levelling Render. After that, produce the 2nd layer with CR 83 applied to a minimum thickness of 15 mm.
Protect the freshly applied render from drying out too quickly and from weather conditions like driving rain and frost.
Use CR 86 Smoothing Plaster "white" for producing a uniform white surface with a decorative finish.

IMPORTANT INFORMATION

Fresh residues can be removed with water; hardened material can only be removed mechanically.
Use CR 83 only in dry conditions and at temperatures of +5 °C to +30 °C and below 80 % relative humidity.
Do not mix with other materials, additives or binders.
Do not use on gypsum-based substrates or cover with gypsum-based products.
CR 83 contains cement and shows a strongly 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 refer in particular to the following technical information sheets:
1. WTA Code of Practice 2-9-04/D "Restoration plaster systems" issued by the Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege (International Association for Science and Technology of Building Maintenance and Monuments Preservation)
2. DIN V 18550
3. DIN EN 998-1
4. DIN 18350 (VOB part C)
5. Technical Data Sheets of other Ceresit products
6. Product information on GISCODE ZP1 issued by the Builders Trade Association

Please refer to the Safety Data Sheet for information on safety and disposal.

TECHNICAL DATA

Material base:	mineral, hydraulic-setting premixed dry mortar (low chromate content), GISCODE: ZP 1
Mortar group: (DIN EN 998-1)	R CS II (DIN 18550: P II)
Colour:	natural white
Reaction to fire:	Euro class A_1
Mixing ratio:	approx. 6.5 – 7.0 l of water per 30 kg
Mixing time:	approx. 2 – 3 minutes
Working time:	approx. 2 – 3 hours
Consumption:	approx. 1.2 kg/m²/ mm layer thickness
Adhesive tensile strength (DIN EN 998-1)	≥ 0.08 N/mm² with fracture pattern A, B or C
Air void content:	≥ 25 vol. %
Capillary water absorption/ water penetration depth (DIN EN 998-1):	≥ 0.3 kg/m² after 24 hrs (tab. mean value acc. to DIN EN 998-1)
Thermal conductivity: (tabulated mean values acc. to EN 1745)	≤ 0.83 W/(mK) for P = 50 % ≤ 0.93 W/(mK) for P = 90 %
Water vapour permeability (DIN EN 998-1):	≤ 15
Durability:	NPD
Shelf life:	approx. 12 months if stored tightly closed in a cool and dry place; use up opened bags as soon as possible
Packaging:	30 kg bag

CE

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DIN EN 998-1:2010
Renovation rendering mortar R CS II

Plastering/rendering mortar for external and internal use on walls, ceilings, columns and partitions

Reaction to fire	**Euro class A1**
Capillary water absorption	**≥ 0.3 kg/m² after 24 hrs**
Water penetration depth:	**≤ 5 mm**
Water vapour permeability	**μ ≤ 15**
Adhesive tensile strength	**≥ 0.08 N/mm² with fracture pattern A, B or C**
Thermal conductivity $\lambda_{10dry, mat}$	**≤ 0.45 W/(mK) for P = 50 %** **≤ 0.49 W/(mK) for P = 90 %** (tabulated mean values acc. to EN 1745)
Durability (frost resistance)	**NPD***

* No performance determined

Should you need support or advice, please consult our advisory service for architects and craftsmen.
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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 control, 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.
All data given was obtained at an ambient and material temperature of +23 °C and 50 % relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed.

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