CR 61

BASE COAT AND LEVELLING RENDER

Base coat and levelling render for historical and other buildings subject to renovation

CERESIT C_CR61_TDS_1_0923

CHARACTERISTICS

- Base coat for restoration render
- For highly salt-contaminated substrates
- For levelling uneven surfaces and filling cavities
- Hydrophilic – remove moisture from walls
- High salt absorption and retention capacity
- Suitable for manual and machine application
- Complies with WTA Code of Practice*

SCOPE OF USE

Ceresit CR 61 can be used for making base renovation plasters on damp and salt-containing partitions inside and outside the buildings. Recommended to be used on historical and other buildings subject to renovation. Reduces corrosion phenomena, enables effective capillary transport of water from the substrate to evaporation zone. Recommended on substrates with a high degree of salt contamination. It can be used for full-surface renovation, local repairs as well as filling cavities. It makes undercoat for producing restoration render-enables levelling uneven surfaces before Ceresit CR 62 renovation plaster. Product is a part of Ceresit Restore restoration render system.

LAYER SELECTION

Before commencing work related to the application of the restoration render system, it is highly recommended to determine the degree of salinity of the substrate, which determines the layout and thickness of individual layers.

Ceresit Restore- restoration render system		
Degree of salinity acc. WTA	Layer arrangement	Layer thickness in mm
Low	CR 60	≤ 5
	CR 62	≥ 20
Medium	CR 60	≤ 5
	CR 61	10÷20
	CR 62	10÷20
High	CR 60	≤ 5
	CR 61	≥ 10
	CR 62	≥ 15

SUBSTRATE PREPARATION

Ceresit CR 61 adheres to all solid, load-bearing, clean, dry and 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 and let it dry. Replace any missing or damage bricks. Rake out loose mortar joints to a depth of approx. 20 mm and then fill with Ceresit CR 61 plaster. Traces of salt efflorescence should be removed with steel brushes. Apply CR 60 mixed mortar wart-like up to 5 mm thickness with a surface coverage of approx. 50% of the full surface area. The mortar can be applied by trowel, broom or mortar spray gun (manual plaster sprayer). The drying time before application of Ceresit CR 61 restoration plaster is minimum 24 h. Before CR 61 application pre-wet substrate covered with CR 60 until the surface is no longer absorbent and appears to be slightly dump.

APPLICATION

Pour the material into a pot with measured amount of approx. 5,0-5,5 l clean, cool water and mix with a low speed mixer until a homogeneous mass without lumps is obtained. After stirring leave material for 5 minutes maturing time and stir briefly again. The plaster prepared in this way should be used within approx. 2 hours. Ceresit CR 61 can also be prepared and applied with standard plastering machine. The addition

of water depends on the machine type and the required consistency.
Application of Ceresit CR 61
Ceresit CR 61 is applied manually or with a standard plastering machine after properly hardened and prepared rough cast of CR 60, done approx. 24h before. Smooth the surface horizontally and vertically removing excessed material with a plasterer's float to produce level finish. Render thickness for highly salt-contaminated cases should be from 10 up to 20 mm and should be kept on all respective surface. Do not rub the plaster. After initial setting, scrape in order to obtain the roughest possible surface, ensuring optimal adhesion for the next layer – Ceresit CR 62. Such work can be done with special tools: board with nails, toothed or grooving scraper. Ensure good ventilation during and after application and drying for indoor application and protect from drying out too quickly and from weather conditions like driving rain and frost for external application.

PLEASE NOTE

Refer in particular to the recommendations of the analysis of old plaster and renovation guidelines. Fresh residues can be removed with water, hardened material can only be removed mechanically. Use Ceresit CR 61 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. All data given was obtained at an ambient and material temperature of +20°C and 65% relative humidity unless specified otherwise. Please note that under other climatic conditions hardening can be accelerated or delayed. Ceresit CR 61 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 eyes, obtain medical advice. Chromium VI content – below 2 ppm during the shelf life of the product. Keep out of reach of children. For professional users. Hazard notes/Safety advices/ Dangerous goods classification/waste disposal advices: See Material Safety Data Sheet on mymsds.henkel.com

STORAGE

Up to 12 months since the production date when stored in cool conditions and in original undamaged packages.

PACKAGING

25 kg Paper bag with PE inlay.

TECHNICAL DATA

Material base:	mineral, hydraulic-setting premixed dry mortar
Colour:	light grey
Dry bulk density in hardened mortar:	1380 ± 10 kg/m^3 acc. PN-EN 998-1:2016
Mixing ratio:	5-5,5 l of water per 25 kg
Mixing time:	approx. 2-3 minutes+5 minutes maturing time+ 1 minute
Application temperature range:	from +5°C up to +30°C
Working time:	up to 2 h
Compresive strength (category):	CS II acc. PN-EN 998-1:2016
Adhesion to substrate and with fracture pattern:	≥ 0,3 MPa FP:C acc. EN 998-1:2016
Water absorption:	Wc2 wg PN-EN 998-1:2016
Water vapour permeability μ:	≤ 15 (saturated solution of KNO_3) ≤ 17 (saturated solution of LiCl) acc. PN-EN 998-1:2016
Thermal conductivity $\lambda_{10,dry}$:	0,31 W/(m·K) acc. EN 998-1:2016
Reaction to fire:	Class A1 acc. PN-EN 13501
Durability (freez-thaw cycle resistance):	
- mass loss:	0%
- flexural strength decrease:	≤20%
- compressive strength decrease:	≤15% acc. PN-EN 998-1:2016
Fresh mortar consistency (spread):	181 mm ± 5 mm acc. WTA 2-9-04/D
Air content in fresh mortar:	>20% acc. WTA 2-9-04/D
Dry bulk density:	<1400 kg/m^3 acc. WTA 2-9-04/D
Compressive strength:	≥ compressive strength of restoration plaster Ceresit CR 62 acc. WTA 2-9-04/D
Capilary water absorption after 24 h (discs):	>1 kg/m^2 acc. WTA 2-9-04/D
Water penetration (discs):	>5 mm acc. WTA 2-9-04/D
Water vapour permeability coefficient μ:	< 18 wg DIN EN 12572
Levelling plaster porosity:	>35%
Porous base plaster porosity:	>45% acc. WTA 2-9-04/D
Properties during machine processing:	
- feed:	10 l/min
- nozzle diameter:	12-14
Consumption:	approx. 12,0 kg/m^2 per 1 m^2 at 1 cm thickness

– General purpose rendering / plastering mortar. Product complies with PN-EN 998-1:2016. Declaration of Product nr 01788 issued 29.11.2022
– Complies with the requirements of the WTA Code of Practice 2-9-04/D „Restoration plaster systems" issued by the Wissenschaftlich-Techniche Arbeitsgemeinschaft fur Bauwerkserhaltung und Denkmalpflege,

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Ceresit CR 61

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EN 998-1:2016

1487

General purpose rendering/plastering mortar

Reaction to fire	A1 Class
Water absorption	W_c2
Water vapour permability μ	μ (saturated solution of KNO_3) ≤ 17 μ (saturated solution of LiCL) ≤ 17
Adhesion	≥ 0,3 MPa FP:B
Thermal conductivity λ10,dry:	0,31 W/(m·K)
Durability (resistance to freezing and thawing)	– weight loos: ≤ 0% – change of flexural strength: ≤ 20% – change of compressive strength: ≤ 15%

Documents available on the website; https://www.henkel-dop.com

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 +20 °C and 65% 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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Quality for Professionals

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