Ceresit

CR 61

Undercoat renovation plaster

For internal and external applications

CHARACTERISTICS

- ▶ vapour permeable
- ▶ contains trass
- ▶ with slight shrinkage
- ▶ hydrophilic
- ▶ mineral
- ▶ complying with WTA requirements

SCOPE OF USE

Ceresit CR 61 is used for making undercoat renovation plasters on damp and salted walls, concrete. It is recommended that its thickness should be minimum 10 mm. It allows to obtain the dry surface of basements and facades. It is specially designed for historical objects to renovate their damp and salted walls. CR 61 may be applied on large surfaces as well as for spot repairs. It is adequate for the substrates of slight strength and high degree of salinity. The plaster CR 61 with the additive of contact emulsion Ceresit CC 81 may form an open work structure to increase the adhesion of the subsequent layers.
It cannot be applied on gypsum substrates or to protect the walls against humidity or water uptake etc.

SUBSTRATE PREPARATION

CR 61 is adhesive to strong load carrying, clean, dry and damp substrates free from any substances decreasing the adhesion. The surface must be rough and porous to ensure good adhesion.
The existing layers, the destroyed plaster or rotted parts of the walls should be removed to the height of at least 80 cm over the damp or salted sphere, thus uncovering the carrying substrate. The weathered joints should be removed to the depth of 20 mm, and then filled with the plaster CR 62 or lime mortar. Salty discolouration should be removed with steel brushes. The surface of walls and concrete should be moistened. On the moistened mat substrate there should be open work

structure applied with the plaster CR 61 diluted to the proper consistency with the water solution of the emulsion Ceresit CC 81 (1 part of emulsion to be mixed with 3 parts of water). The rendering coat with the thickness of approximately 5 mm must cover evenly 50 % of the substrate surface. The renovation plaster should be applied after the rendering coat becomes hardened, minimum after 24 hours.

APPLICATION

The content of the packaging should be poured to the amount of 6.75 l clean, cold water and mixed manually or in a mixer until the homogenous mass without lumps is obtained. If need be, a small amount of water should be added to achieve the proper consistency. Mixing should last not longer than approximately 5 minutes. CR 61may be mixed and fed with a plastering machine.
First deep losses should be filled e.g. empty joints.

After the mortar becomes set it is possible to apply the basic plaster layer. Plaster should be applied in layers the thickness of which amounts at 10 mm. Plaster should be applied manually or mechanically and smoothen with scantlings. CR 61 is a substrate layer, its fresh surface should be brushed and left for hardening in order to obtain good adhesion for the plaster CR 62. The fresh plaster should be protected against fast drying and for minimum 24 hours it should have damp condition to mature. After the plaster hardens and dries (after 48 hours at least) it can be covered with renovation plaster CR 62. In case of application of CR 61 as a plaster to smoothen the surface it can be coated with silicate paint CT 54 (at least after 3 days) or materials with high vapour permeability (after 2–3 weeks).

PLEASE NOTE

Application should be performed in dry conditions with the ambient temperature from +5 to +25 °C. All the data refer to the temperature of +23 °C and relative humidity of 50 %. Faster or slower material hardening may occur in different conditions. Do not mix with other materials. Do not cover with the materials including gypsum. CR 61 includes cement and while mixed with water it shows alkaline reaction. Therefore skin and eyes should be protected. Any dirt should be removed with water. In case of contact with eyes they should be rinsed with water and the general practitioner should be consulted. Content of chromium VI – below 2 ppm during the validity period of the product.

RECOMMENDATION

This technical data sheet determines the scope of application of the material and the way of conducting the work, however, it cannot replace the professional preparation of the contractor. Apart from the data provided the application should be done in compliance with the construction and safety work principles.
The manufacturer guarantees the quality of the product, however, he does not have any influence on the condition and the way of application. In case of any doubts individual application trials should be carried out. The previously issued data sheets become invalid with the issue of this data sheet.

TECHNICAL DATA

Base:	Mixture of hydraulic binders, mineral fillers and modifiers
Colour:	grey
Density:	ok. 1.15 kg/dm^3
Mixing ratio:	approx. 6.75 l water per 25 kg
Temperature of application:	from +5 to +25 °C
Pot life:	approx. 20 min.
Compressive strength after 28 days:	≥ 3,0 MPa
Thermal conductivity:	approx. 0.22 W/mK
Diffusion coefficient of vapour Sd:	0,2 m
Content of air bubbles:	approx. 25 %
Content of air bubbles in the set mortar according to DIN 52615:	above 45 %
Assumed consumption approx. 9.0 kg/m^2 per each cm of plaster thickness (from 1 kg of CR 61 it is possible to get approx. 1.1 dm^3 of fresh mortar)	
This product possesses the certificate from Państwowy Zakład Higieny HK/B/1259/01/2003 and the technical approval issued by Instytut Techniki Budowlanej AT-15-6310/2004.	
Storage:	Up to 6 months since the production date when stored on pallets in dry cold conditions and in original not damaged packages.

Should you need support or advice, please consult our advisory service for architects and craftsmen on the hotline numbers
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