



# CR 50

## RENOVATION SILICONE PAINT

### Silicone renovation paint for outdoor and indoor usage

#### CHARACTERISTICS

- ▶ self-cleaning
- ▶ highly durable and dirt resistant
- ▶ very low water absorption and high vapor permeability
- ▶ thixotropic
- ▶ perfect for facade renovation
- ▶ highly resistant to UV and weather conditions
- ▶ Bio Protect formula – highly resistant to fungi, algae, etc.
- ▶ available in full palette of Ceresit Restore®

#### SCOPE OF USE

Ceresit CR 50 silicone paint is formulated with selected binders together with special fillers and pigments. Due to micro-roughened and very hydrophobic surface obtained by using of special fillers "pearl" effect appears – absorption of water and dirt is strongly limited. Nevertheless the coating is highly permeable to water vapor. Ceresit CR 50 extends the aesthetic effect and durability of coated surface. Ceresit CR 50 is dedicated to be used outdoor and indoor, especially recommended for protecting of coated areas against weathering (e.g. sour rain), biological corrosion and in cases where high durability and dirt-pickup resistance as well as elasticity and abrasion resistance of the surface is required. It can be applied on the mineral substrates (concrete, cement renders, lime-cement and lime renders, gypsum, etc.). The paint can be used for finish painting of Ceresit Restore system on Ceresit CR 62 renovation render, Ceresit CR 64 smoothing render or Ceresit CR 42 drawn mortar. CR 50 paint has high vapor permeability with very low water absorption and high dirt pickup resistance (Double Dry Technology). It is highly recommended to use CR 50 in historical objects, on the renovation and aerated renders as well as on all the surfaces where aesthetic qualities and duration of the coating is required. The paint is highly recommended for painting as well on other mineral renders, within Reno and Repair Ceresit systems. Ceresit CR 50 has thixotropic properties and due to this does not drip, sag or cause stains when applied in a thick layer. The facades covered with the paint CR 50 can be washed with washing devices operating under low pressure. The exposure of the facade to the sun causes dangerous tensions; therefore dark colors should be used only on small areas, e.g. architectural details. To ensure façade durability it is recommended to use CR 50 paint with light reflectance value  $HBW \geq 20$  to prevent from excessive heating of the façade surface. In the case of using color paint below HBW 20 it is



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recommended to consult with Ceresit Technical Department for individual consultation. The paint has protection from biological contamination, such as fungi, mold or algae, increasing its resistance to their effects (Bio Protect formula).

#### SUBSTRATE PREPARATION

The paint CR 50 may be applied on carrying, smooth, dry and clean substrates (free from any substances that decrease adhesion such as grease, bitumen, dust):

- concrete (age over 28 days).
- traditional cement renders, lime-cement renders and lime renders (age over 14 days),
- thin-layer mineral and mineral-polymer renders (age over 5 days),
- thin-layer acrylic and silicone renders (age over 3 days),
- thin-layer silicate renders (age over 5 days),
- gypsum substrates (only inside the buildings) with the humidity below 1%, firstly primed with Ceresit CT 17,
- gypsum cardboards, gypsum-fiber boards (only inside the buildings), fixed according to the recommendations of the board manufactures, firstly primed with CT 17,
- strong paint coats with good adhesion to the substrate.

Firstly uneven and damaged substrates should be repaired. Render filler Ceresit CR 64 can be used for repairs. It is recommended to check the strength of the existing mineral layers. The existing dirt, layers of low strength, lime and adhesive paint coatings as well as the residuals of wall paper or glues should be completely removed. It is recommended to use washing devices with the use of CT 98 agent for removing impurities. After being washed with water, the substrate should dry.

## APPLICATION

Before the paint application, the content of the container should be carefully stirred by means of the drill with a mixer for about 2 minutes. Usually it is sufficient to paint twice. Between the application of the subsequent layers at least 12- to 24-hour technological breaks should be maintained. CR 50 should be applied by means of a brush, roller or a spray device. It is important to apply the paint evenly. Application with spray machine using pressure machines, nozzle e.g. 517, pressure 160-200 bar (Wagner PS 22 or PS 30). If there is such a need, it is possible to add not more than 5% of water and stir carefully. Only stainless containers tools should be used. Work on one surface should be carried on without any breaks using the paint of the same batch number printed on each packaging or the content of containers with different batch numbers should be mixed together. The area not to be painted, e.g. windows, doors should be protected (e.g. with foil). Bushes, other plants, etc. should be protected as well. Any stains should be immediately rinsed with water. Tools should be washed carefully with water directly after being used.

## PLEASE NOTE

Application should be performed in dry conditions with the ambient and substrate temperature ranging from +5 °C to +25 °C and the humidity below 80 %. The paint may cause

Apart from the information given here it is also important to observe the relevant guidelines and regulations of various organizations 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.

discoloration impossible to be removed on glass, ceramic, wooden, metal and stone surfaces; therefore all the elements in contact with CR 50 should be protected. Skin and eyes should be protected. Protective gloves and glasses should be worn while applying the paint. Stains should be carefully rinsed with water. In case of contact with eyes, they should be rinsed with water and the general practitioner should be consulted. This product should be stored out of reach of children.

## RECOMMENDATIONS

This paint should not be applied the surface during direct sun exposure. The facade should be protected against rain until the paint dries completely. It is recommended to use scaffolding protection. This product should not be mixed with other paints, pigments or binders. Do not apply paint to the substrate with increased alkalinity (e.g. Fresh mineral render, mineral substrates), it may cause adverse alkaline effects on the paint coat and pigments. Opened once should be used at the earliest possible time.

## STORAGE

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

**Protect against frost! Protect against direct sunlight!**

## PACKAGING

15 l and 3,5 l buckets.

## TECHNICAL DATA

Base:	selected and modified silicone and acrylic resins with fillers and pigments
Density:	approx. 1,45 kg/dm <sup>3</sup>
Temperature of application:	from +5 °C to +25 °C
Early rain resistance:	after approx. 3 h
Wet scrub resistance	
acc. DIN 53778-2:	≥ 20000 cycles
Water vapor permeability	
acc. EN 1062-1:	cat.V1, S <sub>d</sub> < 0,14 m
Gloss acc. EN 1062-1:	cat. G3, matt
Dry layer thickness	
acc. EN 1062-1:	cat. E3, 100 - 200µm
Grain size acc. EN 1062-1:	cat. S1, <100µ
Liquid water permeability	
acc. EN 1062-1:	cat. W3 w ≤ 0,1 kg/m <sup>2</sup> ·h <sup>0,5</sup>
Assess the degree of blistering	
acc. EN 1062-1:	lack
Evaluation of the cracks	
acc. EN 1062-1:	cat. 0, lack
Assess of the degree of exfoliation	
acc. EN 1062-1:	cat. 0, lack
pH:	approx. 8,9
Consumption:	depending on the smoothness and absorption of the substrate, on average approx. 0.3 l/m <sup>2</sup> with two coatings



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Quality for Professionals