

# CT 49 Silix XD®

## NANO SILICONE RENO

### Nano-silicone paint



**Highly hydrophobic, vapour permeable paint for buildings' facades and interiors also for renovations**

#### CHARACTERISTICS

- ▶ self cleaning
- ▶ dirt resistant
- ▶ very low water absorption and high vapour permeability
- ▶ thixotropic
- ▶ highly durable thanks to formula Silix XD®
- ▶ crack-bridging
- ▶ high elasticity
- ▶ 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 Colours of Nature®



#### SCOPE OF USE

Ceresit CT 49 Silix XD® nano-silicone paint is equipped with selected modified silicone and polysiloxane resins together with special fillers and pigments. Due to micro-roughened, very hydrophobic surface obtained by the use of special fillers in combination with polysiloxanes “pearl” effect appears – absorption of water and dirt is strongly limited. Nevertheless the coat is highly permeable to water vapour. Ceresit CT 49 Silix XD® extends the aesthetic effect and durability of coated surface. Ceresit CT 49 Silix XD® is 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-resistance as well as elasticity and abrasion resistance of the surface is required. It can be applied on the mineral substrates (concrete, cement plasters, lime-cement and lime plasters, gypsum, etc.). This paint can be used for painting the following Ceresit plasters: mineral CT 34, CT 35 and CT 137, acrylic CT 60, CT 63 and CT 64, silicate CT 72 and CT 73, silicone CT 74 and CT 75, silicate-silicone CT 174 and CT 175 as well as elastomeric CT 79. Applied on traditional substrates and within Ceresit ETICS (External Thermal Insulation Composite Systems) with the application of EPS-boards (Expanded Polystyrene boards) or mineral wool boards. CT 49 paint has high vapour permeability with very low water absorption and high dirt resistance (Double Dry Technology). It is highly recommended to use CT 49 in historical objects, on the renovation and aerated plasters as well as on all the surfaces where aesthetic qualities and duration of the coating is required. Due to crack-bridging abilities of CT 49, the coat is highly recommended for painting on mineral plasters, during



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application of ETICS and during the renovation of aged insulation systems as well as on other plasters within Reno and Repair Ceresit systems. Ceresit CT 49 has thixotropic properties and due to this does not drip, trickle down or cause stains when applied in a thick layer. The facades covered with the paint CT 49 can be washed with washing devices operating under low pressure. The exposure of the facade to the sun causes dangerous tensions; therefore dark colours should be used only on small areas, e.g. architectural details. The paint has protection from biological contamination, such as fungi, mould or algae, increasing its resistance to their effects (Bio Protect formula).

#### SUBSTRATE PREPARATION

The paint CT 49 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 plasters, lime-cement plasters and lime plasters (age over 14 days),
- thin-layer mineral and mineral-polymer plasters (age over 5 days),
- thin-layer acrylic and silicone plasters (age over 3 days),
- thin-layer silicate plasters (age over 5 days),
- gypsum substrates (only inside the buildings) with the humidity below 1%, firstly primed with Ceresit CT 17,

- gypsum cardboards, gypsum-fibre 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. Plaster filler Ceresit CT 29 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. CT 49 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 200-220 bar (Wagner PS 22). 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

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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humidity below 80 %. The paint may cause decolouration impossible to be removed on glass, ceramic, wooden, metal and stone surfaces; therefore all the elements in contact with CT 49 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.

## OTHER INFORMATION

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 (eg. Fresh mineral plaster, mineral substrates), it may cause adverse alkaline effects on the paint coat and pigments. Opened once should be used at the earliest possible time.

## PACKAGING

Plastic containers of 15 l.

## TECHNICAL DATA

Base: selected and modified silicone and acrylic resins with fillers and pigments

Density: approx. 1,5 kg/dm<sup>3</sup>

Temperature of application: from +5 °C to +25 °C

Resistance to rain: after approx. 3 h

Assumed consumption: depending on the smoothness and absorption of the substrate, on average approx. 0.3 l/m<sup>2</sup> with two coatings

Resistance to scrubbing acc. DIN 53778-2: >20000 cycles the layer

Water absorption acc. EN 1062-1: cat. W3 w<sub>s</sub> ≤ 0,1 [kg/m<sup>2</sup>h<sup>0,5</sup>]

Water vapour permeability acc. EN 1062-1: cat.V1, S<sub>d</sub> < 0,14 m

Gloss acc. EN 1062-1: cat. G3-mat

Dry layer thickness acc. EN 1062-1: cat. E3 - 100 ± 200 μm

Grain size acc. EN 1062-1: < 100 μm cat. S1

Assess the degree of blistering acc. EN 1062-1: lack

Evaluation of the cracks acc. EN 1062-1: cat. A2, lack

Assessment of the degree of exfoliation acc. EN 1062-1: cat. 0, lack

Fire classification: EN 13501-1:

A2-s1, d0 in:

Ceresit Ceretherm Wool Classic, Ceresit Ceretherm Wool Premium  
Ceresit Ceretherm Universal MW

B – s1, d0 in:

Ceresit Ceretherm Popular, Ceresit Ceretherm Classic  
Ceresit Ceretherm Premium, Ceresit Ceretherm Universal EPS,  
Ceresit Ceretherm Universal XPS

pH: aprox. 8,5

Shelf life/ 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!

This product possesses documents of reference:

- Irish Agreement Board Certificate No. 09/0340

- European Technical Assessment (ETA) in systems:

Ceresit Ceretherm System	Popular	Classic	Premium	Universal EPS	Universal XPS	Universal MW	Wool Classic	Wool Premium
ETA	08/0309	09/0014	08/0308	13/0535	13/0807	14/0127	09/0026	09/0037
Certificate	1488-CPR-0382/Z	1488-CPR-0439/Z	1488-CPR-0363/Z	1488-CPR-0457/Z	1488-CPR-0456/Z	1488-CPR-0362/Z	1488-CPR-0440/Z	1488-CPR-0375/Z
DoP	00426	00420	00428	00433	00434	00435	00424	00430

- National Technical Assessment in systems:

Ceresit Ceretherm System	Reno
NTA	ITB-KOT-2018/0472 wydanie 1
Certificate	020-LWB-0895/Z
NDoC	00444

Quality for Professionals