

# CT 49 Silix XD®

## Nano-silicone paint



**Highly hydrophobic, vapour permeable paint for buildings' façades and interiors**

### CHARACTERISTICS

- ▶ slight absorbance
- ▶ high vapour permeability
- ▶ self-cleaning (especially resistant to dirt)
- ▶ high durability thanks to the Silix XD® formula
- ▶ crack-bridging
- ▶ highly resistant to UV and weather conditions
- ▶ ticsotropic
- ▶ for use in areas open for biological contamination (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 in selected modified silicone and polysiloxane resins together with special fillers and pigments.

Thanks to extremely high hydrophobia of coat surface, reached by use of PTFE additives the "pearl" effect appears – inmigration of water and dirt is strongly limited. Nevertheless the coat is highly permeable to water vapour.

CT 49 Silix XD® extends the aesthetic effect and and durability of coated surface.

CT 49 Silix XD® is used outdoor and indoor, especially suggested for protecting of coated areas against weathering (e.g. sour rain), biological corrosion and in cases where high durability and dirt-resistance is required.

It can be applied on the mineral substrates (concrete, cement plasters, lime-cement plasters and lime plasters) that have never been painted before.

This paint can be used for painting Ceresit: CT 35 and CT 137 mineral plasters, Ceresit: CT 60, CT 63, CT 64 acrylic plasters, Ceresit: CT 72, CT 73 silicate plasters, CT 74, CT 75 silicone plasters, as well as silicate-silicone plasters Ceresit CT 174 and CT 175: applied on traditional substrates and within Ceresit ETICS (External Thermal Insulation Composite Systems) with the application of EPS-boards (Expanded Polystyrene boards).



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. Thanks to crack-bridging abilities of CT 49, the coat is highly recommended for application on mineral plasters as well during application of ETICS as during the renovation of aged insulation systems. The façades covered with the paint CT 49 can be washed with washing devices operating under low pressure. The exposure of the façade to the sun causes dangerous tensions; therefore dark colours should be used only on small areas, e.g. architectural details.

### SURFACE 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 7 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. 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 humidity below 80%.

All the data refer to the temperature of +20°C and relative humidity of 60%. Faster or slower drying of this product may occur in different conditions. 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 on highly insulated surfaces. This product should not be mixed with other paints, pigments or binders. The façade should be protected against rain until the paint dries completely. It is recommended to use scaffolding protection. The opened container should be carefully closed and its content should be used as soon as possible.



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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 industrial safety regulations. 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 conducted. The previously issued technical data sheets become invalid with the issue of this technical data sheet.

## STORAGE

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

**Protect against frost!**

## 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  |
| Anticipated 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. PN-C-81913:                | >5000 cycles the layer   |
| Vapour permeability acc. EN 1062-1:                     | Sd < 0,05m   |
| Water permeability acc. EN 1062-1:                      | W2   |
| Shine acc. EN 1062-1:                                   | G3   |
| Grain size acc. EN 1062-1:                              | S1   |
| Assess the degree of blistering acc. EN 1062-1:         | lack   |
| Evaluation of the cracks acc. EN 1062-1:                | cat. 0, lack   |
| Assessment of the degree of exfoliation acc. EN 1062-1: | cat. 0, lack   |
| Fire classification: B – s1, d0 in:                     | Ceresit Ceretherm Popular<br>Ceresit Ceretherm Express   |
| pH:   | aprox. 9   |

This product is compatible with PN-EN 1062-1:2005.

This product possesses:

- Permission of the Health Secretary for the trading in the biocide product NO. 4224/10;