

CT 54

SILICATE AERO

Silicate paint



Hydrophobic, vapour permeable paint for buildings' facades and interiors

CHARACTERISTICS

- ▶ highly vapour permeable / breathable
- ▶ highly non inflammable
- ▶ excellent adhesion to substrate
- ▶ BioProtect formula – highly resistant to the development of fungi, algae and mould
- ▶ low water absorption
- ▶ resistant to damage and weather conditions
- ▶ durable



SCOPE OF USE

Ceresit CT 54 is used for painting facades and interiors (walls and ceilings). It can be applied on the mineral substrates: concrete, cement plasters, lime-cement plasters and lime plasters. The paint is permanently bound with the substrate as a result of chemical reactions. It is highly recommended to paint new plasters because it allows for starting the painting work immediately, without any threats that the alkaline reaction of the fresh substrate may damage the paint coat. CT 54 can be used for painting mineral plasters Ceresit CT 34, CT 35 and CT 137, as well as Ceresit CT 72, CT 73 silicate plasters, Ceresit CT 174 and CT 175 silicate-silicone plasters applied on traditional substrates and within Ceresit ETICS (External Thermal Insulation Composite Systems). Owing to no flammability and excellent vapour permeability, CT 54 is recommended in case of mineral wool based ETICS, in which the insulation materials are mineral wool boards. 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.

SUBSTRATE PREPARATION

The paint CT 54 may be applied on carrying, smooth, dry and clean substrates (free from any substances that decrease adhesion such as grease, bitumen, dust):

- thin-layer mineral plasters (age over 3 days),
- thin-layer silicate plasters (age over 3 days),
- traditional cement plasters, lime-cement plasters and lime plasters (age over 14 days),



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- strong mineral paint coatings (silicate, cement ones) with good adhesion to the substrate,
 - brick walls, concrete (age over 28 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. Ceresit CT 29 plaster filler 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 remainders 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 a drill with a mixer for about 2 minutes. Usually it is sufficient to paint twice. In case of absorptive substrates the paint can be mixed with added 10% of clean water to apply the first layer. The second or potentially

third layer should be applied without any dilution. Between the application of the subsequent layers at least 12-hour technological breaks should be maintained. CT54 should be applied by means of a brush, roller or a sprinkling device. It is important to apply the paint evenly. Application with spray machine using pressure machines e.g. Wagner PS 22 or PS 30, nozzle 517, pressure 160-200 bar, performance of machine 12 l/min. Neither rusty containers nor tools should be used. Work on one surface should be carried on without any breaks using the paint of the same badge number printed on each packaging or the content of containers with different badge 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 the ambient and substrate temperature ranging from +5 °C to +25 °C and the humidity below 80 %. The paint may cause decolouration impossible to be removed on glass, ceramic, resin, wooden, metal and stone surfaces, therefore all the elements in contact with CT 54 should be protected. The material causes highly alkaline reaction. Skin and eyes should be protected. Protective gloves and glasses should be worn while applying the paint. Stained clothes should be immediately removed. 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 strongly sunny surfaces.

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.

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. The opened container should be carefully closed and its content should be used as soon as possible.

PACKAGING

Plastic containers of 3,5 and 15 l.

TECHNICAL DATA

Base:	silicate solution with hydrophobic additives, pigments and modifiers
Density:	approx. 1.44 kg/dm ³
Temperature of application:	from +5 °C to +25 °C
Resistance to rain:	
white colour	after approx. 12 h
other colours	after approx. 24 h
Assumed consumption:	depending on the smoothness and absorption of the substrate, on average approx. 0.3 l/m ² with two coatings
Resistance to scrubbing acc. DIN 53778-2:	> 20000 cycles the layer
Water absorption acc. EN 1062-1:	cat. W3, w _s ≤0,1 [kg/m ² h ^{0,5}]
Water vapour permeability acc. to EN 1062-1:	cat V1, Sd<0,14 m
Shine acc. EN 1062-1:	cat. G3, mat
Dry layer thickness acc. EN 1062-1:	100-200 μm; cat. E3
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. 0, lack
Assessment of the degree of exfoliation acc. EN 1062-1:	cat. 0, lack
Fire classification acc. EN 13501-1:	
A1 in:	Ceresit Ceretherm Wool Garage
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. 11,5
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:

- BBA Certificate No. 14/5142
- 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/Technical Approvals in systems:

Ceresit Ceretherm System	Reno	Wool Garage
NTA/TA	ITB-KOT-2018/0472 wydanie 1	15-7956/2016 + Annexes
Certificate	020-UWB-0895/Z	ITB-0320/Z
NDaC	00444	00448