CT 174 MACHINE

SILICATE SILICONE AQUASTATIC

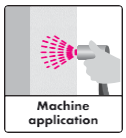
Silicate-silicone render, stone like structure, grain 1.0 mm

Decorative thin-layer render for indoor and outdoor applications

CERESIT C_CT174_MACHINE_TDS_1_0819

CHARACTERISTICS

- dedicated for machine application
- optimised consumption
- homogenous final structure
- vapour permeable (breathing)
- low absorbability
- resistant to damage and weather conditions
- available in full palette of Ceresit Colours of Nature®



SCOPE OF USE

Ceresit CT 174 MACHINE combines good points of silicate render and silicone render. It is vapour permeable with low absorbability and dirt resistant.
Ceresit CT 174 MACHINE is used for making thin-layer plasters on concrete substrates, traditional renders, gypsum substrates and chipboards, gypsum cardboards, etc.
We recommend the application of CT 174 MACHINE as facade render within complex system of warming exterior walls of buildings Ceresit Ceretherm ETICS (External Thermal Insulation Composite Systems) with the application of EPS-boards (Expanded Polystyrene boards) and mineral wool.
In case of intensive dark colours, the material application should be limited to small areas, e.g. architectural details.

SUBSTRATE PREPARATION

CT 174 MACHINE can be applied on smooth, carrying, dry and clean substrates free from grease, bitumen, dust and other substances decreasing adhesion:

- cement renders and lime-cement renders (age above 28 days, moisture ≤ 4 %), concrete (age above 3 months, moisture ≤ 4 %) - primed with the paint Ceresit CT 16,
- reinforced layers made of Ceresit CT 85, ZU, CT 190, CT 100, primed with the paint CT 16 (age above 3 days), and CT 87, primed with the paint CT 16 (age above 2 days),
- gypsum substrates (only inside the buildings) with moisture below 1% - firstly primed with the agent Ceresit CT 17, and then with the paint CT 16,
- chipboards, gypsum-fibre boards and gypsum cardboards (only inside the buildings), fixed according to the recommendations of the board manufacturers - firstly primed with the agent CT 17, and then with the paint CT 16,
- strong paint coats (only inside the buildings) - strong, with good adhesion to the substrate, primed with the paint CT 16.

Uneven and damaged substrates should be first smoothed and repaired. In case of traditional renders and concrete substrates, Ceresit CT 29 render filler can be used. The existing dirt, layers of low strength, as well as elastic, lime and adhesive paint coatings should be removed.
Absorbent substrates should be primed with the agent Ceresit CT 17 and then painted with Ceresit CT 16 paint after minimum 2 hours. It is recommended to use the colour of the primer CT 16 very similar to the colour of the render.
CT 174 MACHINE can be applied when the priming paint CT 16 becomes completely dry.
The moisture coming from the substrate can cause the destruction of the render, therefore one should be assured that the adequate sealing layers have been made in the rooms (places) endangered with constant moisture.

APPLICATION

The whole content of the container should be carefully stirred. If the need appears, it is possible to adjust the product consistency to the application conditions by adding no more than 2% of clean water and mixing again. The consistency should be adjusted on the base of spraying machine demands. Before starting proper application on the facade, sample application on. e.g. gypsum board should be made. During sample application set right consistency of material, fluency, nozzle size, delivery rate and operating pressure. Operating pressure may change depending on machine type, length of hose and height of pumping. Minimal recommended pressure – 2bar. Recommended type of device: SPG Baumaschinen PG 20, Wagner PC 830,
Place the nozzle vertically, approx. 40-60 cm from the wall and spray the surface with smooth moves keeping right angle (900) to the wall. CT 174 MACHINE should be applied on the substrate using spraying devices in two layers in circular motion. CT 174 MACHINE can be also applied on the substrate using spraying device with gun, when first layer is to be applied in horizontal motion, second layer in vertical motion, still in 'wet on wet' operation. Method of application should be determined by the contractor after their own tests. CT 174 MACHINE should be evenly applied on the substrate until right thickness (grain thickness c.a. 1mm), is achieved which ensures complete coverage of the surface. Plaster after application should have even, homogenous structure. All the time delivery rate and operating pressure should be under control. Work should be done on one surface without breaks, keeping the same product consistency. Spraying device, tools and fresh render stains should be washed with water and the hardened render remains can be mechanically removed.
Plaster renovation should be done by painting with Ceresit CT 54 silicate paint as well as Ceresit CT 48 and CT49 silicone paint.

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.

PLEASE NOTE

Application should be performed in the ambient and substrate temperature ranging from +5 °C to +30 °C and the humidity below 80 %. This product should not be mixed with other renders, pigments, resins and binders. The rooms where the material has been applied should be aired until the odour disappears and before they are used. 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

The render should not be applied on walls exposed on solar radiation to avoid fast drying. Until it dries completely, it should be protected against rain. It is recommended to use scaffolding protection. Due to the render mineral fillers that can cause differences in the colour of render, one surface should be rendered with the material of the same production badge number printed on each container. The opened container should be carefully closed and its content used as soon as possible. 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.

PACKAGING

Plastic containers of 25 kg.

TECHNICAL DATA

Base:	water dispersion of synthetic resins with mineral and pigment fillers
Density:	1,9 kg/dm^3
Temperature of application:	from +5 °C to +30 °C
Open time:	approx. 15 min
Resistant to rain:	after approx. 24 hours
Water vapor permeability:	cat. V2, 0,14≤S_d<1,4 m - acc. EN 15824
Water absorption:	cat. W3, w≤0,1 [kg/m^{2}h^{0,5}] - acc. EN 15824
Adhesion:	0,6 MPa acc. EN 15824
Thermal conductivity:	λ = 0,61W/(m*K) acc. EN 15824
Assumed consumption:	
CT 174 grain 1,0 mm	approx. 1,5 kg/m^2
Recommended nozzle:	∅ 6 mm

Shelf life/ Storage: Up to 12 months since the production date when stored on pallets in dry cool conditions and in original undamaged packages. **Protect against frost! Protect against direct sunlight!**

The product has the following reference documents:

- European Technical Assessment (ETA) in systems:

Ceresit Ceretherm System	Popular	Classic	Premium	Wool Premium	Wool Classic
ETA	08/0309	09/0014	08/0308	09/0037	09/0026
Certificate	1488-CPR-0382/Z	1488-CPR-0439/Z	1488-CPR-0363/Z	1488-CPR-0375/Z	1488-CPR-0440/Z
DoP	00426	00420	00428	00430	00424

Product complies with EN 15824.

Henkel CEE
Erdbergstrasse 29
1030 Vienna
www.ceresit.com