TECHNICAL DATA SHEET

SILICAT

Silicate facade plaster

Silicate-based mixture for protective and decorative finishing coats on facades and exterior walls

In accordance with the requirements of ETAG 004

ADHESIVES • PLASTERS • THERMAL INSULATION

PURPOSE

SILICAT is ready-to-use finishing coat, based on potassium waterglass and polymers, added mineral fillers with selected grain size, pigments and preservatives.

The product is used for making of fine protective and decorative coating on facades and exterior walls. The plaster creates white or colourful waterproofed rough surface. It provides a possibility for an extremely wide variety of architectural solutions for facades and individual facade elements. **SILICAT** has a wide range of colours and sizes of the structural grains, along with different options for structural formation.

SILICAT is recommended for work at high summer temperatures. Due to its ingredients, the final film formation is delayed and the time for structuring is extended.

The variety of colours is provided with high-quality pigments, resistant to weather conditions. The final decorative effect can be with a 'dragged' or 'scratched' structure. Colouring is according catalogue of 210 colours.

SILICAT is component of the External Thermal Insulation Composite System TERAZID BIO CLIMA, approved with ETA – 13/0214.

PROPERTIES

- ready-to-use
- vapour-permeable
- water-repellent
- resistant to different weather conditions
- UV-resistant

PREPARATION OF THE BASE

The base must be dry, strong and free of grease, dust and cracks. The surfaces should be smooth and free of holes. If necessary, gaps or uneven elements of the facade should be filled with rough coating.

In case of repairing facade surfaces, unstable areas should be removed and the areas with old paint and grease spots should be thoroughly cleaned. Repaired sections must have the same strength and bearing capacity as the old base before priming. The base should be primed with **TERAZID G-33,** at least 24 hours before **SILICAT** application.

CHARACTERISTICS AND TECHNICAL DATA

- Colour: according to catalogue;
- Type: homogeneous granular mass;
- Density: 1950 kg/m³;
- Resistance of vapour passing: μ = 410;
- Minimal temperature of film formation: +8°C;
- Resistance of rain: after 24 hours'

** (at normal weather conditions – temperature of 20°C and air humidity – 50 %)*

- Bond strength with concrete after 7 days: 1,65 MPa;

Structures:

- **Dragged**
  - fine grained 1,5 mm
  - middle grained 2,0 mm
  - grained 2,5 mm
  - large grained 3,0 mm
- **Scratched**
  - micro grained 1,0 mm
  - fine grained 1,5 mm
  - middle grained 2,0 mm

APPLICATION AND PROCESSING

The application of the facade plaster **SILICAT** can start when at least 24 hours after priming with **TERAZID G-33** have passed. When application is made on large areas, the content of 2-3 buckets of **SILICAT** should be mixed in a bigger container. If necessary, the plaster can be diluted with the universal primer **TERAZID G-33**, but other ingredients should not be added.

Before the application begins, the content in the bucket should be stirred with the help of a mechanic mixer. Rusty tools are not allowed to use.

The thickness of the coating is defined by the marble grains which are manually applied with the help of a plastic mortarboard.

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When the "dragged" variant is applied, the material should be structured with the help of a plastic mortar-board, then left for 10 minutes and finally smoothed until achieving the desired effect.

The "dragged" structure can be accomplished in different directions - vertically, horizontally, diagonally or with a circular movements.

When the "scratched" variant is applied, the material should be structured with circular movements, without pressure for achieving the desired final effect.

It is recommended to work in one surface (area), without interruption. No unfinished surfaces should be left after finishing work. When applying on contiguous areas with different colours, they must be separated with a paper tape, due to protect the already applied plaster from being stained.

Before starting of priming and applying the plaster, it is recommended to cover the parts, which are not going to be plastered. SILICAT should not be applied under direct sunlight or strong air drafts.

CONSUMPTION

- **Dragged:**
  1,5 mm – 2,5 кg/м²
  2,0 mm – 2,9 кg/м²
  2,5 mm – 3,6 кg/м²
  3,0 mm – 4,3 кg/м²
- **Scratched:**
  1,0 mm – 1,9 кg/м²
  1,5 mm – 2,8 кg/м²
  2,0 mm – 3,5 кg/м²

TOOLS FOR WORK

- mechanical mixer
- stainless trowel
- plastic mortarboard
- brush

WEATHER CONDITIONS AT WORK

The minimum twenty-four-hour temperature of the base should not be less than +5°C, and the maximum – not higher than +40°C. It should not be applied when there is rain or when the forecast is for rain, as well as under direct sunlight and strong wind.

FORM OF DELIVERY

Paste in a plastic bucket of 25 kg.

NOTES

Characteristics and technical data of the product, pointed out into this Technical Data Sheet are defined at a standard temperature (20°C) and relative humidity (50%). In other weather conditions, the technological time for some of the processes, mentioned above, could be shorter or longer.

The information of the product is based on the practical experience of the manufacturer and the technical tests in specialized laboratories.

Do not mix with other building materials.

All hazards and precautionary statements about SILICAT can be checked in the Safety Data Sheet of the product.

STORAGE

12 months into the originally sealed package in a dry place, without the danger of freezing.

CE

TERAZID Ltd.

5 "5004" Str. Gara Iskar, Sofia, Bulgaria

ETAG 004
NB 1020
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Reaction to fire	A2 – s1, d0
Density	1950 kg/m³
Adhesion with the base	1.0 MPa
Coefficient of water vapour transmission	28 g/m².d V_2
Coefficient of capillary absorption of water - c	0.25 kg/m².h^{0,5} class W_2
pH at 20°C	8.2
Content of volatile organic compounds /VOC/	< 40 g/l

ISO 9001 ISO 14001 OHSAS 18001 BUREAU VERITAS Certification

TERAZID ETA EUROPEAN TECHNICAL ASSESSMENT THERMAL INSULATION SYSTEMS ETAG 004