

## TECHNICAL DATA SHEET

### Silicate Chalks

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# Silicate Chalks

## Décor + Painting

### Technical Instructions Status 2020

#### 1. Product description

Silicate chalks are purely inorganic / mineral, compact chalk sticks, to work with on mineral and other grounds, indoor and outdoor. High valued materials (mainly) by **KEIM** are used in production, to guarantee best quality. Chalk size : ca. 10 x 2,5 x 2 cm. There are 26 colours.

#### 2. Characteristics of product

- weather-proof
- stable to light
- easy to handle
- readily correctable

Notice : By the reason of pigments different consistency and behaving in production, the Silicate-chalks are not always the same perfect size. Like all chalks they are easy to break.

**Consistency** : Bond, additives and pigments are purely inorganic, mineral.

#### 3. Recommendation for fixation

Depending on ground, intention und claim the chalk application can be fixed / solidified both with pure mineralic (inorganic) and with organic materials.

- As mineral fixative **potassium silicate** is recommended e.g. KEIM-Fixativ (trade name) diluted with **2 - 3** parts water.

#### Only on pure mineralic (inorganic) grounds !

- An organic fixative would be a high-quality **acrylic dispersion**, diluted to spraying consistence.
- An adequate fixative could be also a primer in right consistence, based on acrylic dispersion.

#### Such fixatives work on all grounds !

- A further fixing agent is **silicic acid ester**, as alternative to the described diluted materials (see above).

**Silicic acid ester** is used often on sandstone in stone restoring / solidifying (not appropriate on hard limestone and on **not pure** inorganic / mineral grounds).

#### 4. Application

Before application grounds must be freed of organic rests; they have to be clean and air-dry. Strong absorptive grounds should be primed with the adequate Fixative (possibly multiple priming necessary; preliminary test to avoid flashiness !). If required, comminute the sticks (use fine-tooth saw).

The fixation is done in spray method (manual-atomizer, paint sprayer / compressor, etc.).

Spray the fixative at least in a distance of 50 cm. Frequency of fixation depends on ground's absorptive capacity. Avoid spraying saturated fixative on verticals (otherwise paint run), rather apply several coats in intervals of 1 hour. Prior to fixation, chalks may be removed or modified. This can be made e.g. with a brush or a sponge and water. A very interesting product for modifying a painting in a dry way, is the so called AKAPAD (a big-sized rubber).

#### 5. Type of product / Delivery

Wooden box with 28 standardized colour-sticks (white + black double); single Sticks in 26 colours.

#### 6. Storage

The product is to be stored in a dry atmosphere and must be protected against impacts.

#### 7. Labelling in accordance with the ordinance regulating the handling of hazardous materials

not applicable

#### 8. Labelling for transportation

not applicable

#### 9. Safety regulations

Protect areas that are not to be coated (e.g. glass, natural stone, ceramics etc.) by adequate measures.

Immediately remove fixative splash on adjoining or traffic surfaces by partial solution with plenty of water.

Eyes and skin must be adequately protected against splashes, breath system against spray mist.

Store in a place inaccessible to children. General regulations of structural engineering must be duly observed.

We reserve modifications likely to improve the product and its application.

This leaflet cancels and invalidates all previous editions.

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