

### SILICATE

# HISTORICA FKZ

Exterior silicate paint



### MAIN ADVANTAGES

- Product has been classified as mineral
- Good coverage
- Exceptional vapour permeability
- High adhesion to substrates
- Natural resistance to algae and fungal growth
- For use on mineral substrates

### AREAS OF APPLICATIONS

High quality topcoat paint based on specially modified potassium water glass intended for applying paint coatings outside buildings. It is especially recommended for primary and renovation painting of mineral substrates and for use on damp surfaces in historic buildings. It is applied exclusively on mineral substrates (i.e. concrete, traditional lime renders, lime-cement renders, cement renders, as well as thin coat mineral and silicate renders). It makes up a completely mineral, high vapour permeable coating (Sd < 0.01 m) allowing for free evaporation of moisture from the walls and at the same time due to the application of hydrophobizing substances, it efficiently protects the facade from precipitation. Because of high alkalinity it is naturally resistant to algae and fungal growth. The amount of organic substances in the paint is below 5% acc. to DIN 18 363.

### TECHNICAL SPECIFICATION

**Base binder:** potassium water glass.

**Pigments:** non-organic coloured pigments resistant to atmospheric conditions;

**Content of volatile organic compounds (VOC):** Cat. A/c. The product contains less than 40 g/l VOC.

**Density:** ca. 1.65 g/cm<sup>3</sup>;

**Colours:** natural white and pastel colours from the KABE colour chart or according to samples provided / to be obtained by adding non-organic pigments/.

**Gloss level:** matt;

**Diluent:** water;

**Average coverage:** approx. 0.33 l/m<sup>2</sup> / on smooth substrate, at two layers/.

Coverage depends on substrate properties and on the method of application.

**Temperature of application (air and substrate):** from +8°C to +25°C;

**Relative humidity:** ≤ 75%.

**Vapour permeability:** Sd = 0.01 m (cat. V1);

**Water absorption:** w = 0.11 kg/m<sup>2</sup> · h<sup>0,5</sup> (cat. W2), while in hydrophobized version = 0.09 kg/m<sup>2</sup> · h<sup>0,5</sup> (cat. W3)

**Coating resistance to wet scrubbing after 200 cycles:** 12.2 µm (Class 2 acc. to PN-EN 13300);

**Packaging:** Single-use plastic packaging of 10 and 5l of the product;

**Storage:** The product should be stored in its sealed packaging in a cool room. Keep out of the reach of children.

**Shelf life and storage conditions:** 12 months from the date of manufacture.

### APPLICATION METHOD

**SUBSTRATE PREPARATION:** Apply to a sound/stable (without scratches and cracks), mineral, degreased, even, dry, and biological or chemical efflorescence free substrate. For new mineral substrates allow at least a 2-week seasoning time. The remnants of lime paints should be thoroughly removed and the substrate washed and dedusted. Old and/or dirty substrates should be washed off and degreased with water and **CLEANFORCE** cleaning agent. Mould and/or fungal growth places: clean by mechanical means, rinse with water and disinfect with **ALGIZID** agent. Any layers not bound to the substrate (i.e. loose renders or flaked coatings) should be removed. Uneven areas or holes in the substrate: small, up to 5 mm -smoothen the whole surface with **KOMBI FINISZ G5** levelling compound; larger holes prior to smoothening should be filled with **KOMBI FINISZ G12** levelling compound or **MINERALIT RESTAURO W12** lime mortar. Newly made substrates should be seasoned depending on the thickness of its layer, assuming one drying day per 1 mm of layer applied.

**PRIMING:** Before paint application, the substrate should be primed with **CALSILIT GF**. Typical setting time ca. 24 h under optimum weather conditions (temp. +20°, 55% RH). The paint can be applied when the primer is completely dry.

**PAINT PREPARATION:** Immediately prior to application stir thoroughly, if necessary add a small amount of potable water adding 10% of volume for the first painting and 5% for the second one. Quantity of added water may vary depending on the substrate type, drying conditions and application method. **Note:** Directly before applying paint, surfaces made of materials susceptible to alkalis (such as wood, metal, glass or clinker brick) must be protected against splashing.

**APPLICATION:** Paint should be applied on the substrate in two layers with a brush, roller or by spraying (including the 'airless' method). The second paint layer should be applied only after the first one dries and sets completely, i.e. after min. 24 hours. It is recommended to use a special paint roller for facade paints made of woven polyamide with a bristle length of min. 18 mm. It is not recommended to use mechanical spraying during windy weather. **Note:** The product is alkaline, therefore, it is necessary to protect eyes and skin. Safety clothing (PPE) must be worn while carrying out any work. In case of contact with eyes, immediately rinse them thoroughly with plenty of water. If necessary, consult a doctor, show the container or label.

**DRYING:** Drying time for one layer applied on a substrate is about 12 hours -tack-free condition (at +20°C and relative air humidity of 55%). Complete setting (hardening) and further processing of the coating can be performed after 24 hours. **Note:** Setting time may be longer due to low temperatures and high relative humidity. Protect the fresh coating against precipitation and condensation until it sets completely.

**USEFUL HINTS:** To avoid colour differences, a single batch product should be applied to entire facade or element in one working cycle. Application and setting of paint requires air temperatures above +8°C. All tools must be cleaned with water after finishing work. To protect unbound coating against inclement weather conditions, scaffolding should be covered with some protective netting. **Note:** Low or high temperature as well as high air humidity may have an adverse effect on the shade of the paint coating. Both, too high and too low temperature during paint application and drying may lead to insufficient setting of the binder. As a result, further contact with water may cause washing out of the unset potassium water glass what may lead to the formation of durable patches or discolouration.

**ADDITIONAL OPTIONS:** When applying the paint on substrates with scratches up to 0.3 mm wide (such as shrinkage cracks in mineral render), it is recommended to use a microfiber-reinforced paint for the first painting (option available on order).