

## TECHNICAL SHEET 08.04.01-EN



# JUBIZOL Silicate finish S 1,5 mm

## Silicate smooth render finish

### 1. Description, Application

JUBIZOL Silicate finish S 1,5 mm is used to produce the final layer for JUBIZOL External Thermal Insulation Composite (ETICS) mineral-based facade systems. It is made on the basis of a dispersion binder and potassium water glass, and has a characteristic uniform granular surface. It is intended for the decorative protection of facade wall surfaces. Adheres well to all finely rough construction substrates: classic lime-cement and cement plasters, as well as smoothed concrete surfaces, etc. In addition to its high strength, it is characterized by non-flammability and high vapor permeability. Good resistance to the effects of flue gases, UV rays and other atmospheric elements ensures its durability in all climatic conditions, but we do not recommend it for the protection of the facade surfaces of high-rise buildings with minimal roof eaves that are heavily exposed to precipitation. Treated surfaces are guaranteed long-term resistance against infection by wall algae and mold, so adding biocidal substances before installation is not necessary.

### 2. Colour Shades

- white (shade 1001)
- Colour shades according to the JUB Home of Colours color chart C-G, N, T, W with limitations
- Colour shades according to the JUB Favourite Feelings color chart C-G \*

Delivery in shades designed at a special request of the customer is possible under certain conditions

### 3. Technical data

Packaging	25 kg
Density	~1.845 kg/dm <sup>3</sup>
Water dilution	1 dl/bucket
Layer thickness	~1,5 mm
Drying time	Touch dry ~6 h

T = +20 °C, relative air humidity = 65 %		
Average consumption		~2.4 kg/m <sup>2</sup>
Vapor permeability EN ISO 7783-2	coefficient $\mu$	<50
	value Sd (d = 1,5 mm)	<0.075 m (class 1)
Water absorption w <sub>24</sub> (EN 1062-3)		<0.1 kg/m <sup>2</sup> *h <sup>0,5</sup>
Water absorption class		W3
Adhesion according to EAD 040083-00-0404, point 2.2.20.2		>0.3 MPa

#### 4. Installation Conditions

Temperature of air and wall surface should not be lower than +5 °C or higher than +30 °C, and relative air humidity should be <80 %. Façade surfaces should be protected from the sun, wind and precipitation by using curtains, and despite this protection, the rendering should not be done during rain, fog or strong wind ( $\geq 30$  km/h).

#### 5. Surface Preparation

The surface should be slightly rough (ideal is the roughness of a conventionally smoothed fine render of 1.0 mm granulation), solid (compressive strength of at least 1.5 MPa – CS II by EN 998-1), dry and clean, without weakly bound particles, dust, easy water-soluble salts, oil stains and other filth. Any smaller uneven parts – protrusions and indentations – hinder the smoothing of the applied render finish; therefore it is important to attend to the preparation of the surface.

Prior to the application of a decorative render finish, the newly applied base-coats have to dry at least 7 to 10 days for each cm of its thickness. Decorative render finishes are applied to new concrete surfaces only a month after concreting (stated drying times of the surface are valid in normal conditions: T = +20 °C, relative air humidity = 65 %). Coatings, slurries and other decorative coats have to be removed from old solid plasters/renders. After the surface had been cleaned, it should be thoroughly dusted by washing and, if necessary, mended and levelled. Washing the surface with a high-pressure water blaster (hot water or steam) is especially recommended in the case of fibre-cement boards and all concrete surfaces since it removes panel oil from new surfaces and soot, moss, lichen, remains of old coatings and similar from old ones.

The base is coated with JUBIZOL Unigrund primer, chosen in a shade as close as possible to the color of the render.

The application of a render finish should start only when a primer is dried through. In normal conditions (T = +20 °C, relative air humidity = 65 %), at least 12 hours after application of base coat.

For technical information on these primers, please read the technical data sheet.

#### 6. Preparation of Render Finish for Application

Prior to application, stir the render finish with an electric mixer, and, if necessary (only exceptionally), dilute it with water (maximum 1 dl per container). The colour shade must be checked; then, equalize the render finish in order to remove even the slightest or imperceptible differences in colour shade between individual buckets. Stir the content of four buckets well in a large container of appropriate size. When a quarter of the so prepared compound is used, the content of the next bucket is poured into the container and mixed properly with the rest of the render finish, etc. Equalisation of white renders, which belong to the same production batch or to the same production date and which have not been diluted, is not necessary.

Reworking the render finish during application (adding tinting agents, diluting, and similar) is not allowed.

#### 7. Application of Render Finish

Apply the mortar compound manually with a stainless-steel smoothing trowel or spray it in the thickness slightly above the diameter of the thickest sand grain. When applying the render finish by spraying, follow instructions of the producer of the mechanical equipment. Immediately after the application smooth the surface with a solid plastic smoothing trowel. Smoothing should be performed by circular strokes until an evenly grained structure is

achieved. Grains in the applied mortar coat should move as little as possible during smoothing, pushing of the mortar compound in the form of a wave in front of the trowel is not allowed. In most cases, the creation of such a wave can be attributed to over-thickness of the application or to the surface not being prepared well or it being uneven. At the end – a few minutes after trowelling - push the protruding lumps into the surface by smoothing the surface slightly using a clean stainless-steel smoothing trowel.

Perform the application as fast as possible, without any interruptions from one corner of the wall to the other. When applying the render finish onto wall surfaces higher than one floor, it must be applied simultaneously to all floors: in such cases, always begin the application at the top floor, while performing a phase-delayed “step shift” in lower floors. Larger wall surfaces should be divided into smaller sections by using adequately wide decorative grooves, mortar trims, and other decorations, frames or in any other way. In this manner we avoid potential problems caused by continuous application of the render finish as well as non-aesthetic appearance due to a potentially uneven surface. Joints between planes in inner or outer corners can be made easier by preparing a few cm wide, finely smoothed stripes, which also give a pleasant decorative appearance to processed surfaces. Decorative smoothed stripes, grooves, mortar trims, frames, and similar are usually made prior to the application of the decorative render finish. They are protected by suitable wall paints, while paying attention not to apply coatings encroaching onto surfaces prepared for the application of the render finish.

In normal conditions ( $T = +20\text{ }^{\circ}\text{C}$ , relative air humidity = 65 %), resistance of freshly processed surfaces to damage caused by precipitation (washing away of the application) is achieved in 24 hours at the latest. Thoroughly clean the tools with water immediately after use. Dried stains cannot be removed.

## 8. Maintenance and Restoration of Treated Surfaces

Façade surfaces processed with JUBIZOL Silicate finish S 1,5 mm do not require any special maintenance. The non-adhering dust and other non-adhering filth can be swept, hoovered or washed away with a water blaster. Adhering dust and more obstinate stains can be removed by light rubbing with a soft brush soaked into a solution of usual universal household preparations and washed away by clean water.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is recommended. In such cases, apply two coats of the micro-reinforced façade paint REVITALCOLOR or SILICONECOLOR or SILICATECOLOR onto a prior coat of an appropriate primer.

## 9. Storage, Transportation Conditions and Durability

Storage and transportation at temperatures between  $+5\text{ }^{\circ}\text{C}$  and  $+25\text{ }^{\circ}\text{C}$ , protected from direct sunlight, out of the reach of children, **MUST NOT FREEZE!**  
Shelf life when stored in originally sealed and undamaged packaging: at least 12 months.

## 10. Other Information

Technical instructions are given based on our experiences and are given as a guideline for achieving optimal results. We cannot take any responsibility for the damage, caused by incorrect selection of a product, incorrect use or unprofessional work. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

If applied within External Wall Insulation systems, render finishes shall have brightness (Y) over 25. Darker render finishes and render finishes of intensive colour shades, which can be achieved only with organic pigments, are less stable under heavy conditions of use, somewhat less resistant to being washed out by precipitation and tend to chalk more. Complaints about changes, which might thus occur on exposed facade surfaces, especially in the form of faster bleaching, will not be accepted. Therefore, one should consult JUB's experts for each case individually regarding conditions for the application of such renders and the maintenance of processed surfaces. The list of such susceptible colour shades is available at stores where JUMIX tinting stations are located as well as in our sales and technical information departments.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

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