

TECHNICAL SHEET 03.03.11-EN



JUPOL Bio silicate

Silicate interior paint suitable for people who are hypersensitive to preservatives

1. Description, Application

JUPOL Bio silicate is an interior wall paint made on the basis of potassium water glass, free of biocides, plasticizers and heavy metals, so it is impeccable for users with a hypersensitivity to preservatives. It is suitable for new and renovation painting of wall and ceiling surfaces in various buildings, including architectural heritage buildings. The color film bonds chemically to the substrate, is well-coated, vapor-permeable, resistant to wet scrubbing (resistant, class 2) and has a dead matte appearance. It can be applied to well-adhering old dispersion coatings, various plasters, leveling compounds, undisturbed concrete, gypsum plasterboard, etc. It does not contain heavy metals and has a low content of volatile organic compounds.

2. Colour Shades

wet scrub

3. Technical data

Packaging	5 l, 15 l	
Density	~1.55 kg/dm ³	
Content of vaporous substance (VOC)	1 g/l	
The EU VOC requirement - category	A/a<30	
Water dilution mass	10 %	
Water dilution volume	15.5 %	
Drying time T = +20 °C, relative air humidity = 65 %	Touch dry	3 h
	Suitable for further treatment	4-6 h

Consumption		180-210 ml/m ² (for a two-coat application)	
Recommended number of layers		2	
Characteristics of a dry paint film	Classification according to EN13300	Resistance to wet scrubbing	resistant, class 2
		Coverage with efficacy of	class 2 7 m ² /l
		Appearance	dead matt
	Vapor permeability EN ISO 7783-2	μ, coefficient	<9
		value Sd (d = 100 μm)	<0.001 m class 1 (high water vapour permeability)

4. Installation Conditions

The temperature of the air and the wall base should be from +8 °C to +35 °C, and the relative air humidity should not be higher than 80%.

5. Surface Preparation

Surface should be solid, dry, and clean – without any badly-adhered particles, dust, remains of panelling oils, fat, or other dirt.

Drying time of new renders and levelling compounds in normal conditions (T = +20 °C, relative air humidity = 65 %) is at least 1 day for each mm of thickness, while for concrete surfaces the drying time is at least one month. From already painted surfaces, remove all paint coats, paints and precoat with oil paints, lacquers and enamels which get easily and quickly soaked in water. Surfaces infected with wall mould, must be disinfected prior to painting. Application of a primer is obligatory before the first painting. We recommend SILICATE Primer diluted with water (in ratio 1:1), in case of use on more demanding and more absorbent surfaces, is used water-diluted white coverage base coat DRYWALL Primer (in ratio 1:1), if we want to underpaint the base, we recommend applying SILICATE Primer, JUPOL Bio silicate and water in a 1:1:1 ratio.

The application of the primer is usually not necessary in the case of restoration painting of substrates painted with silicate paints or substrates of silicate decorative render finishes.

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

6. Preparation of Paint

Only stir the paint well before use and, if necessary, dilute it with water in accordance with consistency corresponding to application technique and conditions (see table above). ATTENTION! Paint coverage decreases with dilution!

The color of the same shade, which is used to paint larger areas in a large enough container, is equalized from at least three buckets, when one third of the equalized color is used, a new color is added to the container and it is equalized with the rest of the color from before. White tinting is not required.

Any “repairs” of the paint during application (addition of tinting agents, diluting, and similar) are not allowed.

7. Paint Application

For applying paint, we recommend long-haired textile paint roller (length of hairs or threads is 18 - 20 mm; the following can be used: textile linings made of different synthetic threads – polyamide, dralon, vestan, nylon, perlon or polyester) or a painting brush suitable for application of dispersion wall paints.

An individual wall surface is painted without interruptions from one end to the other. Always treat first the surfaces inaccessible to a standard long-bristle paint roller or to spraying gun (corners, gutters, narrow reveal surfaces, and

similar) first using suitable brushes or smaller paint rollers adjusted to existing conditions.

The paint can also be applied by spraying, we recommend the use of a nozzle 515 and pressure minimal 60 bars.

Thoroughly clean the tools with water immediately after use. Empty the roller by using a trowel for rubbing off paint; then thoroughly clean the tools with water. Keep unused paint in a well-sealed packaging for potential repairs or later use.

8. Maintenance and Restoration of Painted Surfaces

Painted surfaces do not require any special maintenance. Sweep or Hoover non-adhered dust and other non-adhered filth. Remove adhered dust and stains by light rubbing using a wet cloth or a sponge soaked into a solution of traditional universal household preparations. Then wash the surface with clean water.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is conducted, as described in the chapter "Paint Application". At renovation painting, application of a primer is usually not necessary.

9. Storage, Transportation Conditions and Durability

Storage and transportation at temperature +5°C to + 25°C, protected from the direct sunlight, out of reach of children, **MUST NOT FREEZE!!**

Durability 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.

The colour shade may differ from the print in the colour chart, from the sample or from approved sample. However, the total colour difference ΔE_{2000} – it is determined in accordance with the ISO 7724/1-3 and by the mathematical model CIE DE2000 - doesn't exceed 1.5, for colour shades from the JUB's PAINTS AND RENDERS colour chart or 2.5 for colour shades from the NCS and RAL colour charts. To check the stated differences, observe a dried coat of paint applied to a standard test cardboard and standard of subject paint kept at TRC JUB d.o.o.. Paint manufactured by other colour charts is the best possible approximation for the JUB's primers and tinting agents. Therefore, in such cases the total colour difference from the desired shade may be even higher than the value guaranteed above. Differences of colour shades resulting from unsuitable working conditions, the application technique and paint preparation process different from the instructions, failure to follow the equalisation rules or application to unsuitably prepared, overly or nonsufficiently coarse, to humid or nor dry enough surface, cannot be subject of a complaint.

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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