

TECHNICAL SHEET 03.01.14-Eng

INTERIOR WALL PAINTS



JUPOL SILIKAT

One-coat interior wall paint

1. Description, Application

JUPOL SILIKAT is an environmentally friendly interior wall paint based on potash water glass. It is recommended especially for **decorative protection of walls and ceilings of buildings of architectural heritage and it can be used without any restrictions to process wall surfaces of residential and business buildings, schools, nursery schools, hospitals, hotels, residences for the elderly and other buildings.** Suitable surfaces include fine render finishes of all types, surfaces levelled with levelling compounds, as well as gypsum-cardboards and fibre-cement boards, chipboards, unplastered concrete and similar. Application to well-adhered old dispersion coats and well-adhered decorative render finishes of all types is also possible.

The paint is distinguished by **exceptionally low content of vaporous organic substances, and it does not contain softening agents and heavy metals. Paint production is carried out under constant supervision of TÜV SÜD Industrie Service GmbH, München, and it meets the requirements for the "POLLUTANT TESTED and PRODUCTION MONITORED"** (TÜV SÜD Test Standard TM 07 Dispersion Paints "Issue 06/09") code.

It is **easy to apply** and **available in a wide range of shades.** The paint film **binds chemically to the surfaces, has no shine, is highly water vapour permeable and resistant to wet scrubbing,** so that the not extremely-adhered filth can be wiped from painted surfaces with a cloth soaked into a solution of conventional household preparations.

5 to 7.5 % (50 to 75 ml/l) of JUBOCID can be added to the paint for decorative protection of wall and ceiling surfaces of rooms, where condensed water is likely to appear due to high relative air humidity and with it strong likelihood for intensive development of different types of wall mould in corners, behind wardrobes and elsewhere (kitchens, bathrooms and other sanitary facilities, laundries, pantries and similar).

2. Packaging and Colour Shades

Plastic containers holding 5 and 15 litres:

- White (shade 1001)
- Shades marked by a * (231) from the PAINTS AND RENDERS colour chart (on JUMIX tinting stations at points of sale!)
- Under certain conditions, delivery of paints designed at a special request of the customer is also possible.

Paints of various shades can be mixed in optional ratios!

3. Technical Data

Density (kg/dm ³)	~1.55
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Content of vaporous organic substances (VOS) (g/l)		EU VOC requirement (cat. A/a) 30 g/l (2010) JUPOL SILIKAT max. 1 g/l VOC
Drying time T = +20 °C, relative air humidity = 65 % (hours)	Touch dry	~3
	Suitable for further treatment	4 - 6
Characteristics of a dry paint film	Classification under EN 13300	Resistance to wet scrubbing
		Coverage
		Gloss
Characteristics of a dry paint film	Water-vapour permeability EN ISO 7783-2	μ coefficient (-)
		Sd value (l = 100 μ m) (m)
		<135
		<0.03 Class I (high water-vapour permeability)

Main ingredients: potash water glass and styrene-acrylate binder, fine calcite and silicate fillers, titanium dioxide, cellulose thickening agents, water.

4. Surface Preparation

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

In normal conditions (T = +20 °C, relative air humidity = 65 %), dry or mature the newly applied render finishes and levelling compounds for at least a day for each mm of their thickness. Dry concrete surfaces for at least a month. Remove all paint coats that soak easily and quickly in water and coatings of oil paints, varnishes and enamels from the already painted surfaces. Prior to painting, it is obligatory to disinfect surfaces infected with wall mould.

Always apply a primer prior to the first application of the paint. We recommend water-diluted SILICATEprimer (SILICATEprimer : water = 1 : 1) or just diluted paint (JUPOL SILIKAT: water = 1 : 1). In the case of more demanding and less quality surfaces (less quality coatings made of gypsum-cardboards, gypsum renders, fibre-cement boards, chipboards, non-plastered concrete surfaces and surfaces processed with paints and renders based on polymeric binders), apply JUBOSIL GF. Apply the primer with a paint or masonry brush or a long-fibre fur or textile paint roller. JUBOSIL GF can also be sprayed. In normal conditions (T = +20 °C, relative air humidity = 65 %), painting may begin 12 hours after the application of a primer.

The application of a primer is usually not necessary in the case of renovation painting of surfaces painted with silicate paints or surfaces of silicate decorative renders.

Indicative or average use (depending on absorption and roughness of the surface):

SILICATEprimer	90 – 100 ml/m ²
or	
JUBOSIL GF	130 – 150 ml/m ²
or	
JUPOL SILIKAT	90 – 100 ml/m ²

5. Paint Preparation

Only stir the paint well before use and, if necessary, dilute it with water (maximum 10 %) in accordance with consistency corresponding to application technique and conditions. ATTENTION! Paint coverage decreases with diluting!

Equalise the paint needed to coat the finishing wall surface (or, better still: all surfaces, which are painted in the same shade) in a container of appropriate size. In the case of large surfaces, where, in such a manner, it is impossible to technically ensure sufficient quantity of paint even for a one-layer application, mix paint from at least three containers in an equalisation container first. When a third of the so prepared paint is used, pour new paint into the container and stir it



well together with the rest of the paint already in the container, etc. Equalisation of white paint of the same production batch, which has not been diluted, is not necessary.

Any "repairs" of the paint during painting (addition of tinting agents, diluting and similar) are not allowed. Quantities of paints necessary to paint individual surfaces are calculated or estimated on the basis of the surface of these surfaces and data on consumption rate, and, in specific cases, consumption is determined by making measurements on a test surface that is large enough.

6. Paint Application

Apply the paint in two coats 4 - 6 hours apart ($T = +20\text{ }^{\circ}\text{C}$, rel. air humidity = 65 %) with a long-fibre textile paint roller (length of hairs or threads is 18 to 20 mm; the following can be used: textile linings made of different synthetic threads – polyamide, dralon, vestan, nylon, perlon or polyester) or with a paint brush suitable for the application of dispersion wall paints. When applying the paint with a roller, use a suitable bucket grid.

Paint an individual wall surface without interruptions from one corner of the wall to the other. Always treat surfaces inaccessible to a standard long-fibre paint roller (corners, gutters, narrow reveal surfaces and similar) first using suitable brushes or smaller paint rollers adjusted to existing conditions.

Painting is possible only in suitable conditions or suitable microclimate conditions: the temperature of the air and the wall surface should be between $+5^{\circ}\text{C}$ and $+35^{\circ}\text{C}$ and the relative air humidity should be below 80 %.

Approximate or average consumption for a two-coat application:

JUPOL SILIKAT	180 - 210 ml/m ² , depending on absorption and roughness of the surface
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7. Tool Cleaning, Waste Management

Clean the tools with water immediately after use. Using a spatula, empty the cylinder, and wash the tool immediately and thoroughly with water. Keep unused and undiluted paint in a well sealed package for potential repairs or later use.

Do not empty waste remains into drains, watercourses or environment and do not dispose them together with domestic wastes. In accordance with waste management regulations, they are classified among waste bearing classification number 08 01 12 or 20 01 28 and may be handed in to registered transferees in empty packaging or at assembly centres for waste of this kind or via organised collection of hazardous waste by municipal companies. Cleaned packaging waste (15 01 02) is collected separately and handed in to be recycled to an authorised transferee or to an assembly centre for waste of this kind.

8. Safety at Work

In addition to general instructions and regulations on safety at construction or painting works, please consider that the product contains potash water glass, which irritates eyes and skin, therefore use suitable personal protective means while working.

In case of contact of the product with skin and eyes, rinse with water. Seek medical advice.

9. 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 recommended. It should include a new two-layer paint application as described in the chapter entitled "Paint application". In the case of renovation painting of less dirty surfaces, only one paint application usually suffices due to remarkable coverage. At renovation painting, application of a primer is usually not necessary.



10. Storage, Transport Conditions and Durability

Storage and transport at temperature +5 °C to +25 °C, keep out of direct sunlight, out of reach of children, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 months.

11. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovene, European and other standards. The achieving of the declared or set quality level is under constant supervision of TÜV SÜD Industrie Service GmbH, München, and it is also ensured by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in our own laboratories, occasionally at the ZAG Construction Institute in Ljubljana, at Fraunhofer IPA Institut in Stuttgart and at other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovene and European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.

12. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

A paint may differ from the imprint in the colour chart or from the certified sample, and the total paint difference ΔE_{2000} for paints under the JUB PAINTS AND RENDERS colour chart – it is defined in accordance with ISO 7724/1-3 and the CIE DE2000 mathematical model – amounts to maximum 1.5. In order to check the colour shade, a dry application of paint on a test surface is compared to a standard of the concerned shade, which is stored in the TRC JUB d.o.o. The best possible approximation for available JUB's bases and tinting pastes is a paint made in accordance with other colour charts, therefore total paint discrepancy from the desired paint may also be greater than the above stated guaranteed values. A difference in colour shade, which is the result of unsuitable working conditions, of a product preparation technique, which differs from the one in this technical sheet, of failure to follow the equalisation rules, of the application of the product onto an unsuitably prepared, over or not enough absorbing surface, more or less coarse surface, or on a wet or not dried enough surface cannot be subject of complaint.

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

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The product is made by the holder of ISO 9001:2008, ISO 14001:2004 and OHSAS 18001:2007 certificates.