

TECHNICAL SHEET 03.01.54-GBR

INTERIOR WALL PAINTS

JUPOL Clima control

Silicate interior paint which binds formaldehyde

1. Description, Application

JUPOL Clima control is an environmentally friendly and user-friendly interior wall paint based on potash water glass. It doesn't contain biocides. Paint film in spaces binds and decomposes poisonous formaldehyde, which is released from furniture, wooden linings, different textiles, adhesives, and other artificial materials. It is also suitable for persons suffering from the hypersensitivity to preservatives. We recommend it in particular for decorative protection of walls and ceilings in the facilities of architectural heritage and it is without any limitations also suitable for processing of wall surfaces in residential and commercial buildings, schools, kindergartens, hospitals, hotels, homes for elderly people and other facilities. Suitable substrates include the following: fine render finishes of all types, substrates smoothed with levelling compounds, and also gypsum-cardboard and fibre-cement panels, chipboards, unplastered concrete, etc. The application to well-adhered old dispersion coatings and well-adhered decorative render finishes of all types is also possible.

The paint is distinguished by extremely low content of vaporous organic substances and it does not contain softening agents nor heavy metals.

It is easy to apply and available in a wide range of colour shades. The paint film adheres chemically to the substrate, it is without gloss, with good water vapour permeability and resistant to wet scrubbing so that filth from not excessively dirty painted substrates can be wiped with a cloth soaked in a solution of traditional household preparations

We can add 5 to 7.5 % (50 to 75 ml/l) of JUBOCID to the paint for decorative protection of wall and ceiling surfaces in areas, where due to high relative air humidity there exists a high probability of formation of condensation and as a consequence in corners, behind the wardrobes and in other spots there is a high probability for intensive development of different kinds of wall moulds (kitchens, bathrooms and other sanitary areas, washing rooms, storage places, etc.)

2. Packaging, Colour Shades

Plastic containers holding 5 and 15 l:

- White (colour shade 1001)
- Pastel colour shades E and F according to the colour chart JUB FAVOURITE FEELINGS - (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 colour shades can be mixed in optional ratios!

3. Technical Data

Density (kg/dm ³)		~1.55	
Content of vaporous organic substances (VOC) (g/l)		The EU VOS requirement (cat. A/a) 30 g/l (2010) JUPOL Clima control max. 1 g/l VOC	
Drying time T = +20 °C, rel. air humidity = 65 % (ur)		Touch dry	~3
		Suitable for further processing	4 - 6
Characteristics of dry paint film	Classification by EN 13300	Resistance to wet scrubbing	resistant, class 3
		Coverage	class 2 with efficacy 7.0 m ² /l
		Gloss	flatt mat

Characteristics of dry paint film	Water vapour permeability EN ISO 7783-2	Sd value (d = 100 μm) (m)	<0.03 class I (high water vapour permeability)
Characteristics of dry paint film	Binding of formaldehyde (g/m ²) in 1 hour	87 μg Binding of formaldehyde (g/m ²) in 1 hour	
Characteristics of dry paint film	Binding of formaldehyde in 1 month	Binding of formaldehyde (mg/m ²)	8.3 mg/m ²
Characteristics of dry paint film	Binding of formaldehyde final	Binding of formaldehyde (g/m ²)	0.48 g/m ²

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 %), let the newly applied renders and levelling compounds dry or mature for at least 1 day for each mm of their thickness. Concrete surfaces should dry for at least a month. Remove all paints, precoats, and other decorative coats, which get easily soaked in water, from already painted surfaces. Surfaces infected with wall mould must be disinfected prior to painting

Always apply a primer prior to the first painting. We recommend water-diluted SILICATE primer (SILICATE primer: water = 1 : 1) or simply diluted paint (JUPOL Clima control : water = 1 : 1). In the case of more demanding and lower quality surfaces (lower quality coatings made of gypsum-cardboards, gypsum render finishes, fibre-cement boards, chipboards and unplastered concrete surfaces, surfaces processed with paints and render finished based on polymeric binders) apply JUBOSIL GF. Apply the primer with paint or masonry brush or a long-fibre fur or textile paint roller, while JUBOSIL GF can also be applied by spraying. In normal conditions (T = +20 °C, relative air humidity = 65 %), painting may begin 12 hours after the application of the primer.

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.

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

SILICATE Primer	90 – 100 ml/m ²
or	
JUBOSIL GF	130 – 150 ml/m ²
or	
JUPOL Clima control	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! The 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 application (adding tinting agents, diluting, and similar) are not allowed. The quantity of paint required to paint specific surface can be calculated or estimated from the surface and data on average consumption. In specific cases, the consumption can be determined by measuring at large enough test surface.

6. Paint Application

Apply the paint in two coats at intervals of 4 - 6 hours ($T = +20\text{ }^{\circ}\text{C}$, rel. air humidity = 65 %) using a long-fibre fur or textile paint roller (length of hairs or threads is 18 to 20 mm; the following can be used: natural and artificial fur or textile linings made of different synthetic threads – polyamide, dralon, vestan, nylon, perlon or polyester) or 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 process surfaces inaccessible to a standard long-fibre paint roller or a spray gun (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 Clima control	180 – 210 ml/m ² , depending on absorption and roughness of the surface
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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. Safety and Health at Work

Further instructions regarding handling the product, use of personal protection equipment, waste management, tool cleaning, first aid measures, warning signs, signal words, components determining hazard, hazard statements and safety statements are listed in the product's safety sheet which you can find on Jub's web page or you can require it from the manufacturer or seller. When applying the product, the instructions and regulations regarding safety for construction, façade and painting works should also be observed.

9. Maintenance and Restoration of Painted Surfaces

Coated surfaces do not require any special maintenance. Dust and other non-adhering filth can be simply swept or vacuumed. Adhered dust and stains should be removed by gentle rubbing with a wet cloth or sponge soaked into a solution of conventional household preparation. Then, the surface should be washed with clean water. However, where filth and stains cannot be removed applying the methods described above, renovation painting is conducted which comprises a two-coat application of paint, as described in the chapter “Paint application”. In case of renovation painting of less dirty substates, one coat usually suffices, as the paint has extremely good coverage. At restoration painting, application of a primer is usually not necessary.

10. Storage, Transportation Conditions and Durability

Storage and transportation at temperature $+5\text{ }^{\circ}\text{C}$ to $+25\text{ }^{\circ}\text{C}$, 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.

11. Quality Control

The product's quality characteristics are determined with the internal manufacturing specifications as well as with the Slovenian, European and other standards. The achievement of declared or set quality level is ensured by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years. It comprises daily quality checks in our own labs, and occasionally also at the Construction Institute in Ljubljana, the Fraunhofer IPA Institut in Stuttgart and at other independent institutions at home and abroad. During the manufacturing process, we strictly comply with the Slovenian and European standards for protection of the environment and for ensuring security and health at work, which is confirmed by the ISO 14001 and OHSAS 18001 certificates.

12. Other Information

Technical instructions in this brochure 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.

The colour shade may differ from the print in the colour chart. 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. A correctly dried application of paint to the test surface and a standard of the concerned colour, which is stored at TRC JUB d.o.o., shall be decisive for control purposes. Difference in colour shade, which is a result of unsuitable working conditions, of a colour preparation technique, which differs from the one in this technical sheet, failure to follow the equalization rules, application onto an unsuitably prepared, overly or not enough absorbing surface, more or less coarse surface, on wet or not dried enough surface, cannot be subject of 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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