

TECHNICAL SHEET 03.05-eng INTERIOR WALL PAINTS

JUPOL CITRO

Mould-resistant interior wall paint

1. Description, Application

JUPOL CITRO is an interior wall paint based on water dispersion of polymeric binders. It is suitable mainly for **decorative protection of walls and ceilings of rooms, where condensed water is likely to appear due to high relative air humidity causing intensive development of various types of wall mould in corners, behind wardrobes and elsewhere.** It is recommended mainly for **kitchens, bathrooms and other sanitary facilities, laundries, pantries** and similar rooms of residential and business buildings, schools, nursery schools, hospitals, hotels, residences for the elderly and other public buildings, small-trade plants and industrial buildings, where the use of washable paints or paints resistant to wet scrubbing is not required for such protection. Suitable surfaces include fine render finishes of all types, surfaces levelled with levelling compounds, paper relief wallpapers, 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.

JUPOL CITRO is distinguished by **exceptionally low content of vaporous organic substances and it does not contain heavy metals.** At the time of application and drying it **smells of lemons.** The paint is **easy to apply and available in a wide range of pastel colour shades.** **Surfaces, painted with JUPOL CITRO, which are frequently moistened by condensed water, also remain resistant to infection with the most widely spread types of wall mould for a relatively long period of time.** Their resistance can even be increased if 5 to 7.5 % (50 to 75 ml/l) of JUBOCID is added to the paint. Paint film is **highly water vapour permeable and resistant to dry scrubbing,** however, it can be softened and damaged if wiped with a wet cloth or a sponge.

2. Packaging, Paints

Plastic containers holding 2 litres:

- White (shade 1001)

Plastic containers holding 5 and 10 litres:

- White (shade 1001)
- 150 shades from the PAINTS AND RENDERS colour chart – shades ending with 3, 4 and 5 (on JUMIX tinting stations at points of sale)
- It is possible to tint it to pastel shades with DIPI COLOR (up to 200 ml per 15 l of white paint) or with DIPI KONCENTRAT (up to 100 ml per 5 l of white paint)

Paints of various shades can be mixed in optional ratios!



3. Technical Data

Density (kg/dm ³)		~1.59	
Content of vaporous organic substances (VOS) (g/l)		<1 The EU VOS requirement – category A/a (from 1 January 2010): <30	
Drying time T = +20 °C, relative air humidity = 65 % (hours)	Touch dry		~3
	Suitable for further treatment		4 - 6
Characteristic s of dry paint film	Classification by EN 13300	Resistance to wet scrubbing	Not resistant
		Coverage	Class 2 with efficacy of 9.0 m ² /l
		Gloss	Matt
	Water-vapour permeability EN ISO 7783-2	μ coefficient (-)	<100
		Sd value (t = 100 μm) (m)	<0.01 Class I (high water-vapour permeability)

Main ingredients: vinyl acetate binder, fine calcite and aluminosilicate 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 application of the paint. We suggest water-diluted AKRIL EMULSION (AKRIL EMULSION : water = 1 : 1). In the case of more demanding and less quality surfaces (less quality coatings made of gypsum-cardboards, gypsum render finishes, fibre-cement boards, chipboards and unplastered concrete surfaces) apply water-diluted JUKOLPRIMER (JUKOLPRIMER : water = 1 : 1). Apply the primer with a paint or masonry brush or a long-fibre fur or textile paint roller or spray it. In normal conditions (T = +20 °C, relative air humidity = 65 %), painting may begin 6 (AKRIL EMULSION) or 12 (JUKOLPRIMER) hours after the application of the primer.

The application of the primer is usually not necessary in the case of paint restoration and prior to the application of the paint onto surfaces smoothed with dispersion levelling compounds.

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

AKRIL EMULSION	90 – 100 g/m ²
or	
JUKOLPRIMER	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 rapidly with diluting!

Equalise the paint needed to coat the finishing wall surface (or, better still: all surfaces, which are painted in the same colour 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, which belongs to the same production batch or to the same production date and 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

Paint is applied in two coats, 4 to 6 hours apart ($T = +20\text{ }^{\circ}\text{C}$, rel. air humidity = 65 %) using a long-bristle 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), a painting brush suitable for application of dispersion wall paints or it can be sprayed. Use a suitable bucket grid when applying the paint with a roller.

An individual wall surface is painted without interruptions from one end to the other. Always treat surfaces inaccessible to a standard long-bristle paint roller or spraying 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 weather or microclimate conditions: temperature of the air and the wall surface should not be lower than $+5\text{ }^{\circ}\text{C}$ and not higher than $+35\text{ }^{\circ}\text{C}$ and relative air humidity should not be higher than 80 %.

Approximate or average consumption for a two-layer application:	
JUPOL CITRO	170 - 200 ml/m ² , depending on absorption and roughness of the surface

7. Tool Cleaning, Waste Management

Thoroughly clean the tools with water immediately after use.

Keep unused paint (only that, which has not been diluted!) in a well sealed package for potential repairs or later use. Waste liquid remains must not be emptied into drains, watercourses, or environment and they must not be disposed together with domestic wastes. Mix them with cement (hardened mortar remains and wastes, sand or sawdust may be added to them) and when they harden, deposit them onto the dumping grounds of construction waste (waste classification number: 17 09 04) or municipal waste (waste classification number: 08 01 12).

Cleaned packaging can be recycled.

8. Safety at Work

Respiratory protection with a protective mask and eye protection with protective glasses or a face shield is necessary only when paint is applied by spraying. Otherwise, follow the general instructions and regulations on safety at works including construction and painting. The use of special personal protection means and the application of special measures for safe work at paint application with a paint roller or a brush is not necessary.

In case of contact with eyes, rinse with water immediately.

9. Maintenance and Restoration of Painted Surfaces

Painted façade surfaces do not require any special maintenance. The non-adhering dust and other non-adhering filth can be swept or hoovered.

However, where filth cannot be removed applying the methods described above, renovation painting is conducted. In such cases, apply two coats of paint as described in the chapter »Paint Application«. Application of primer is usually not required for renovation painting.

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 18 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, at Forschungsinstitut für Pigmente und Lacke 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 or from the approved sample. However, the total colour difference ΔE_{2000} for shades from the JUB's PAINTS AND RENDERS colour chart – 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. Paint manufactured by other samplers and 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. 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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