

TECHNICAL SHEET 06.01.03-GBR

SPECIAL COATS

JUPOL Amikol

Microbe-resistant interior latex paint

1. Description, Application

JUPOL Amikol is an interior wall paint based on water dispersion of polymeric binders. It is suitable in particular for decorative protection of walls and ceilings in areas with heavily exposed wall surfaces and where superior cleanliness and hygiene are required (however, only those that are not permanently wet).

The paint JUPOL Amikol is suitable for use in food processing industry: bakeries, slaughter establishments, dairy production facilities, bottling facilities for alcoholic and non-alcoholic drinks, wine cellars, cold rooms, industrial kitchens, etc. We particularly recommend it in public institutions, such as healthcare institutions: waiting areas/lobbies, quarantines, hospitals and other frequently visited locations as well as in schools, kindergartens and in homes for elderly people.

The paint film is protected against the attack of microorganisms (PT7 treated product) among which are also harmful moulds such as for instance *Aspergillus flavus* (which produces the so-called aflatoxin) and harmful bacteria such as: *Staphylococcus Aureus (MRSA)* and *Eschericia coli*. The resistance of paint film against mould is determined in line with the **Standard SIST EN 15457**, and the resistance to bacteria in line with the standard **ISO 22196**. Due to effects of Zinc pyrithione, Octhilinone and Iodopropynyl Butyl Carbamate, the paint film in contact with microorganisms prevents the latter from performing basic biochemical reactions. Consequently, in contact with JUPOL Amikol the microbes are metabolically inactive and for this reason they gradually decay. The paint film thus remains undamaged, as microbes cannot breed on JUPOL Amikol.

The paint is distinguished by 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 shades. The paint film has a silky gloss and it is washable or well resistant to wet scrubbing so that filth, which does not adhere to painted surfaces well, can be wiped with a cloth soaked in a solution of traditional household preparations or medical disinfectants based on Quaternary ammonium compounds, Glutaraldehyde and isopropanol. The JUPOL Amikol paint film is tested also for the resistance to disinfecting agents according to the standard **ISO 2812 – 4: 2007**. It is also distinguished by good resistance to wear and tear.

2. Packaging, Colour shades

Plastic containers holding 15 l and 5 l:

- White (colour shade 1001)
- Colour shades according to the colour chart JUB PAINTS AND RENDERS, RAL, NCS and ALL THE SHADES OF YOUR FAVOURITE FEELINGS - colour shades d, e, f (on JUMIX tinting stations at points of sale)
- Tinting to pastel shades is possible with DIPI KONCENTRAT (up to 100 ml per 5 litres of paint)
- 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)		~1.42	
Content of vaporous organic substances (VOC) (g/l)		<1 The EU VOS requirement – category A/a (since 1 January 2010): <40	
Drying time T = +20 °C, rel. air humidity = 65 % (hours)	Touch dry	~3	
	Suitable for	4 - 6	
Characteristics of dry paint film	Classification by EN 13300	Resistance to wet scrubbing	Resistant, class 1

		Coverage	Class 1 with efficacy 7.0 m ² /l
		Gloss	Semi-matt
	Water-vapour permeability EN ISO 7783-2	Coefficient μ (-)	<3000
		Sd value (d = 100 μ m) (m)	<0.30 class II (medium water-vapour permeability)
	Adhesion to standard lime-cement render EN ISO 24624 (MPa)		>0.5

Main ingredients: ethylene and 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, fat linings or other filth.

In normal conditions (T = +20 °C, relative air humidity = 65 %), dry or mature the newly applied renders 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 with ALGICID Plus.

Always apply a primer prior to the first application of the paint. We suggest water-diluted AKRIL Emulsion (AKRIL Emulsion : water = 1 : 1) or simply diluted paint (JUPOL Amikol: water = 1 : 1). In the case of more demanding and lower quality surfaces (lower quality linings made of gypsum-cardboards, gypsum renders, fibre-cement boards, chipboards and non-plastered concrete surfaces) apply water-diluted JUKOL Primer (JUKOL Primer : 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 JUPOL Amikol) or 12 (JUKOL Primer) 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

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

AKRIL Emulsion	90 – 100 g/m ²
or	
JUPOL Amikol	90 – 100 ml/m ²
or	
JUKOL Primer	90 – 100 ml/m ²

5. Paint Preparation

Only stir the paint well before use and, if necessary, dilute it with water (maximum 5 %) in accordance with consistency corresponding to application technique and conditions.

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 °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), a paint brush suitable for the application of dispersion wall paints, or by spraying. 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°C and +35°C and the relative air humidity should be below 80 %.

Approximate or average consumption for a two-coat application (depending on absorption and roughness of the surface): JUPOL Amikol	150 – 190 ml/m ²
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Thoroughly clean the tools with water immediately after use.

7. 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.

8. Maintenance and Restoration of Painted Surfaces

Painted surfaces do not require any special maintenance. Dust and other non-adhering filth can be simply swept or hoovered, while adhered dust and stains can be removed by soft rubbing with a wet cloth or sponge soaked in a solution of conventional universal household preparations, then the surface is washed away with clean water. For cleaning and disinfecting of painted surfaces the use of water solution of standard medical disinfectants is also allowed, to which the resistance of paint film is tested according to the standard **ISO 2812 –4: 2007**.

However, on surfaces where filth and stains cannot be removed applying the methods described above, renovation painting is conducted, which consists of a new two-coat application of paint 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 18 months.

10. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovenian, European and other standards. JUB constantly monitors the declared or set quality level in its own laboratories, at the Construction Institute in Ljubljana and occasionally also at other independent institutions in Slovenia and abroad. The quality level is also ensured by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years. During the manufacturing process, JUB strictly complies 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.

11. 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} – it is determined in accordance with the ISO 7724/1-3 and with a mathematical model CIE DE2000 – does not exceed 1.5 in the case of shades from the JUB's PAINTS AND RENDERS colour chart or 2.5 in the case of shades from the NCS and RAL colour charts. 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. A colour shade of a paint made on the basis of other samplers and colour charts is the best possible approximation for JUB's product bases and tinting agents. Therefore, in such cases the total colour difference from the desired shade may be even higher than



the value guaranteed above. 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. We reserve the right to change and supplement data in the future

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