

TECHNICAL SHEET 03.03.12-EN



JUPOL Antimicrob

High coverage anti-microbe washable paint

1. Description, Application

JUPOL Antimicrob is a high coverage interior wall paint based on water dispersion of polymeric binders and special additives. It is intended for decorative and antimicrobe protection of wall and ceiling surfaces. It is recommended for use primarily in areas of facilities where there is a high intensity of fluctuation of persons, since dry paint film prevents the reproduction of microorganisms such as bacteria, viruses, spores of various moulds etc. and prevents them from remaining on the surface. In addition, the dry color film has good coverage, vapor permeability, resistance to wet scrubbing (class 2) and low gloss. Suitable surfaces include surfaces levelled with levelling compounds, paper and fleece relief wallpaper, relief wallpaper made of glass fibres, as well as gypsum-cardboards and fiber-cement boards, chipboards, unplastered concrete, fine render finishes of all types and similar. It does not contain heavy metals and has a low content of volatile organic compounds.

2. Colour Shades

- white (shade 1001)
- Colour shades according to the JUB Home of Colours color chart E-G, N, W
- Colour shades according to the JUB Favourite Feelings color chart E-G
- delivery in shades designed at a special request of the customer is possible under certain conditions

Paints of various shades can be mixed in optional ratios!

3. Technical data

Packaging	5 l, 15 l
Density	~1.6 kg/dm ³
Content of vaporous substance (VOC)	0.5 g/l
The EU VOC requirement - category	A/a<30
Water dilution mass	10%

Water dilution volume		16%	
Drying time T = +20 °C, relative air humidity = 65 %	Touch dry	3h	
	Suitable for further treatment	4-6h	
Consumption		150-190 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 6m ² /l
		Appearance	matt
	Vapor permeability EN ISO 7783-2	μ, coefficient	<70
		value Sd (d = 100 μm)	<0.007 class 1 (high water vapour permeability)
	Protection against microorganisms	PT10 biocidal products	yes
	SIST EN 15457	Resistance to mould	yes
ISO 22196	Resistance to bacteria	yes	

4. Installation Conditions

The temperature of the air and the wall base should be from +5 °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, with no badly adhered particles, dust, oil stains, or other filth.

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 ACRYL Emulsion diluted with water (in ratio 1:1), in case of use on more demanding and more absorbent surfaces, is used water-diluted deep base coat JUKOL Primer (in ratio 1:1). We can start painting 6 hours (ACRYL Emulsion) or 12 hours (JUKOL Primer) after applying the primer in normal conditions (T = 20 °C, relative air humidity = 65%).

For restorative paints and before applying the paint to substrates smoothed with dispersion leveling compounds, a primer is usually not required.

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 and antimicrobial protection 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

We apply the color in two layers with a 5-6 hour interval ($T = 20\text{ }^{\circ}\text{C}$, relative air humidity = 65%). For applying paint, we recommend long-bristle fur or textile paint roller (length of hairs or threads is 18 - 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 painting brush suitable for application of dispersion wall paints. When applying the paint with a roller, use a suitable bucket grid.

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.

Thoroughly clean the tools with water immediately after use.

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 vacuumed. Adhered dust and stains should be removed by gentle rubbing with a wet cloth or sponge. The use of cleaning agents and other household preparations is not recommended without prior consultation or checking the composition of the latter, as some preparations may contain components which, when used in this way, could impair antimicrobial activity. Only cationic water-based preparations are suitable for cleaning surfaces.

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 substrates, one coat usually suffices. At restoration painting, application of a primer is usually not necessary.

9. 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.

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 colour charts 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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