

## TECHNICAL SHEET 07.01.01-ENG

### FACADE PAINTS

# Acrylcolor

Acrylic facade paint



### 1. Description, Application

Acrylcolor is a façade paint based on water dispersion of polymeric binders. It is suitable in particular for decorative protection of solid, smooth (smoothed) or finely or equally coarse facade surfaces without cracks, structural anomalies or any other defects, such as: already carbonatised – more than a year old – classic lime-cement fine renders or at least a month old cement or cement-reinforced diluted/thinned down fine renders, at least two months old unplastered concrete facade surfaces, fibre-cement and similar facade boards, facade bricks, etc. Application is also possible to well adhered old acrylic, silicate and silicone paint coats and finely coarse decorative render finishes of all types.

Acrylcolor is characterized by high water repellency and good coverage. Paint film adheres excellently to the surface and it is resistant to the effects of smoke, ultraviolet rays and other atmospheric factors. Therefore, the product is resistant in any climate conditions, even on façade surfaces of tall buildings with short projecting eaves, exposed to heavy rainfall.

### 2. Packaging and Colour Shades

Plastic pots holding 0.75 l:

- white (colour shade 1001)
- specially labelled colour shades in the colour chart JUB PAINTS AND RENDERS (yellow – colour shade 3010, ochre – colour shade 3100, dark brown – colour shade 1140, oxide red – colour shade 1210, black – colour shade 1500)

Plastic containers holding 0.75 l\*, plastic containers holding 5 and 15 l:

- White (colour shade 1001)
- Colour shades from the JUB PAINTS AND RENDERS colour chart whose code's last figures are 2, 3, 4 and 5 (on JUMIX tinting stations at points of sale)
- Colour shades from the JUB FAVOURITE FEELINGS colour chart whose code's last figures are C, D, E and F - (on JUMIX tinting stations at points of sale!)
- Tinting is also possible according to the NCS\* colour chart (on JUMIX tinting stations at points of sale)
- Tinting is also possible according to the RAL CLASSIC\* colour chart (on JUMIX tinting stations at points of sale)
- Delivery in colour shades designed at a special request of a customer is possible under certain conditions
- Paints of various colour shades can be mixed in optional ratios!
- From now on, intensive colour shades are deliverable in colour shades of the façade paint Trendcolor

\* Due to certain limitations, number of colour shades can be lower than the total number of shades in colour charts.

### 3. Technical Data

Density (kg/dm <sup>3</sup> )		~1.51
Content of vaporous organic substances (VOC) (g/l)		<20 The EU VOC requirement – category A/c (as of 1 January 2010): <40
Drying time T = +20 °C, rel. air humidity = 65 % (hours)	Touch dry	~3
	Suitable for further treatment	~6



Characteristics of a dry paint film	Vapour permeability EN ISO 7783-2	$\mu$ coefficient (-)	<1600
		Sd value (d = 100 $\mu$ m) (m)	<0.17 class II (medium water-vapour permeability)
	Water absorption $w_{24}$ EN 1062-3 ( $\text{kg/m}^2\text{h}^{0,5}$ )		<0.04 class III (low water absorption)
	Grasp to standard lime-cement render (1 : 1 : 6) EN 24624 (MPa)		>0.6
	Adhesion to standard concrete EN 1542 (MPa)	In dry (before ageing)	>2.0
		In dry (after ageing)	>3.0
Gloss		mat	

Main ingredients: acrylate binder, fine calcite and aluminosilicate fillers, titanium dioxide, cellulose thickener, 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 applications of levelling compounds for at least a day for each mm of their thickness. Dry concrete surfaces for at least a month. In case of paint renovation, thoroughly remove all old badly-adhered particles as well as paint coats, paints, precoats and other decorative coats, all of which get easily and quickly soaked in water. Washing with a jet of hot water or steam is strongly recommended mainly for very dirty surfaces, all concrete surfaces and surfaces infected with wall algae and mould. Disinfect such surfaces after washing.

In the event of potential repairs of façade surfaces that have been damaged in any way, follow only procedures, which assure, concerning roughness, as high a level of equalisation as possible to the repaired surface. By painting, it is not possible to completely eliminate differences in the texture and structure of the surface, since they may usually appear even more visible and bothering after being painted.

The application of primer is mandatory, both prior to first painting as well as prior to renovation painting. We recommend water-diluted JUKOL Primer (JUKOL Primer : water = 1 : 1), water-diluted SILICONE Primer (SILICONE Primer : water = 1 : 1), water-diluted AKRIL Emulsion (AKRIL Emulsion: water = 1 : 1) or simply water-diluted paint (Acrycolor : water = 1 : 1), which are applied with a paint or masonry brush, a long-fibre fur or textile paint roller or sprayed.

In normal conditions (T = +20 °C, relative air humidity = 65 %) the application of final paint may begin 6 (AKRIL Emulsion, SILICONE Primer or Acrycolor) or 12 (JUKOL Primer) hours after the application of a primer.

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

JUKOL Primer	90 – 100 ml/m <sup>2</sup>
or	
SILICONE Primer	90 – 100 ml/m <sup>2</sup>
or	
AKRIL Emulsion	90 – 100 g/m <sup>2</sup>
or	
Acrycolor	90 – 100 ml/m <sup>2</sup>



## 5. Preparation of Paint

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

Equalize paint needed to coat the finishing wall surface (or, even better: all surfaces, which are painted in the same colour shade) in a container of appropriate size. In 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 thinned, is not necessary.

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

## 6. Paint Application

Paint is applied in two (exceptionally three) coats 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; the second or the third application can be applied only onto a completely dry previous coat – in normal conditions (T = +20 °C, relative air humidity = 65 %) it is usually after approximately 6 hours (in case of lower temperatures and high relative air humidity drying time can be substantially extended!).

Paint can be sprayed onto a surface using traditional high pressure and modern low pressure spray guns of different types (with “external” or “internal mixing of air”), as well as airless aggregates of a variety of manufactures. As regards to the choice of diameter of spraying nozzles and service pressure, follow producer's instructions. An individual wall surface is painted without interruptions from one end to the other. Without prejudice to the before stated, always treat surfaces inaccessible for a standard long-bristle 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 weather or microclimate conditions: the temperature of the air and the wall surface should not be lower than +5 °C and not higher than +35 °C and relative air humidity should not be higher than 80 %. Protect façade surfaces against the sun, wind and rainfall with curtains; however, do not conduct any work in rain, fog or strong wind ( $\geq 30$  km/h) despite such protection.

In normal conditions (T = +20 °C, relative air humidity = 65 %), resistance of freshly painted surfaces to damage caused by precipitation (washing away of paint) is achieved in 24 hours at the latest.

Approximate or average consumption for a two-coat application:

Acrycolor	180 - 210 ml/m <sup>2</sup> , depends on absorption and coarseness of surface
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O Thoroughly clean the tools with water immediately; dried stains cannot be removed.

## 7. Safety and Health at Work

Further instructions regarding handling the product, use of personal protection equipment, waste management, 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 façade surfaces do not require any special maintenance. The non-adhering dust and other non-adhering filth can be swept, vacuumed or washed away by water. Adhering dust and more obstinate stains can be removed by light rubbing with a wet cloth or sponge soaked into a solution of usual universal household preparations and washed away by clean water.

Restore paint on surfaces, which cannot be cleaned of filth and stains in the above described manner. Restoration painting should include a new two-layer paint application as described in the chapter entitled "Paint application". Always apply adequate primer. It is possible to apply paint directly onto a surface only in case no more than two years have elapsed since the last painting.

## 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 with the internal manufacturing specifications as well as with the Slovenian, European and other standards. The 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, which encompasses daily quality checks in our own labs and occasionally also at the Construction Institute in Ljubljana, at Forschungsinstitut für Pigmente und Lacke in Stuttgart, Germany as well as 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.

## 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. All assurances for the product's characteristics (including colour shade) shall apply only for the entire JUB system.

The colour shade may differ from the print in the colour chart or from the approved sample. However, the total colour difference  $\Delta E_{2000}$  – it is determined in accordance with the ISO 7724/1-3 and by a mathematical model CIE DE2000 – doesn't exceed 1.5 for colour shades from the JUB's COLOURS AND RENDERS colour chart or JUB FAVOURITE FEELINGS colour chart or 2.5 for nuances from the NCS and RAL colour charts. If you wish to check the colour shade, dry the application of a render on a test surface correctly and check a standard of the concerned shade, which is stored in TRC JUB d.o.o.. Paint manufactured by other colour charts is the best possible approximation for JUB's primers and tinting agents. Therefore, in such cases the total colour difference from the desired nuance 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 of the compound 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.

For application to façade surfaces, we recommend paint with brightness (Y) over 25. Darker paints and paints of intensives colour tones, which can be achieved only with organic pigments, are somewhat less resistant to washing out with precipitation and more inclined to chalking in more demanding exploitation conditions. We shall not accept complaints for changes, which might occur for this reason on façade surfaces which pale faster. Therefore, one should consult our experts for each case individually regarding conditions for application of such paints and maintenance of processed surfaces. The list of colour shades, which could be controversial in this sense, is available at stores where JUMIX tinting stations are located as well as in our sales and technical information departments.

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

