

**TECHNICAL SHEET 10.02.41-ENG**  
 DECORATIVE RENDER FINISHES

# JUBIZOL ACRYL FINISH XS 1.5 and 2.0

## Acrylic Smooth Render (XTG)

### 1. Description, Application

JUBIZOL ACRYL FINISH XS 1.5 and 2.0 are intended for preparation of final coat in JUB's façade systems where EPS or XPS boards are used as thermal insulation lining. They are based on polymeric binders, with a characteristic equally grained surface and used for decorative protection of façade wall surfaces. They adhere well to all fine-coarse construction surfaces including: classic fine lime-cement and cement plasters and smoothed concrete surfaces. In addition to high hardness, they are also characterised by high water-repellence and good water vapour permeability. High resistance to the effects of smoke, ultraviolet rays and other atmospheric factors guarantees their resistance in any climate conditions. Surfaces rendered with these finishes have an assured resistance to contamination with wall algae and mould. Therefore, it is not necessary to add any biocidal substances prior to application.

### 2. Packaging and Colour Shades

25 kg plastic containers:

- White (shade 1001)
- Colour shades of the JUB PAINTS AND RENDERS colour chart marked with \* – colour shades ending in 2, 3, 4, and 5 (on JUMIX tinting stations at points of sale!)
- Colour shades of the JUB FAVOURITE FEELINGS colour chart marked with \* – colour shades ending in C, D, E, and F (on JUMIX tinting stations at points of sale!)
- Delivery in shades designed on special request of the customer is possible under certain conditions

### 3. Technical Data

		JUBIZOL ACRYL FINISH XS 1.5	JUBIZOL ACRYL FINISH XS 2.0
Density (kg/dm <sup>3</sup> )		~1.80	~1.80
Drying time – touch dry T = +20 °C, relative air humidity = 65 % (hours)		~6	~6
Water-vapour permeability EN ISO 7783-2	μ coefficient (-)	<160	<160
	Sd value (m)	<0.24 (for d = 1.5 mm) class V2 (medium water-vapour permeability)	<0.35 (for d = 2.0 mm) class V2 (medium water-vapour permeability)
Water absorption w <sub>24</sub> EN 1062-3 (kg/m <sup>2</sup> h <sup>0,5</sup> )		<0.10 class W3 (low water absorption)	<0.10 class W3 (low water absorption)
Adhesion to standard lime-cement plaster (1: 1: 6) EN 24624 (MPa)		>0.30	>0.30

Main ingredients: acrylate binder, coarse and fine calcite fillers, cellulose thickening agents, titanium dioxide, water

### 4. Surface Preparation

The surface should be slightly rough (ideal is the roughness of a conventionally smoothed fine plaster of 1.0 mm granulation), solid (compressive strength of at least 1.5 MPa – CS II by EN 998-1), dry and clean, without weakly bound particles, dust, easy water-soluble salts, oil stains and other filth. Any smaller uneven parts – protrusions and indentations – hinder the smoothing of the applied render finish; therefore it is important to attend to the preparation of the surface.



Prior to the application of a decorative render finish, the newly applied base-coats have to dry at least 7 to 10 days for each cm of its thickness. Decorative render finishes are applied to new concrete surfaces only a month after concreting (stated drying times of the surface are valid in normal conditions:  $T = +20\text{ }^{\circ}\text{C}$ , relative air humidity = 65 %). Coatings, slurries and other decorative coats have to be removed from old solid plasters/renders. After the surface had been cleaned, it should be thoroughly dusted by washing and, if necessary, mended and levelled. Washing the surface with a high-pressure water blaster (hot water or steam) is especially recommended in the case of fibre-cement boards and all concrete surfaces since it removes panel oil from new surfaces and soot, moss, lichen, remains of old coatings and similar from old ones.

Suitable primers for individual types of surfaces are stated in the table below:

Surface	Primer	Consumption (depends on absorption and coarseness of surface)
Fine lime-cement renders, EWI base-coats	UNIGRUND (a colour shade closest to the render finish colour)	120 – 200 g/m <sup>2</sup>
	Water-diluted ACRYLCOLOR (a colour shade closest to the render finish colour; ACRYLCOLOR : water = 1 : 1)	90 – 100 ml/m <sup>2</sup>
	Water-diluted AKRIL EMULSION (AKRIL EMULSION : water = 1 : 1)	90 – 100 ml/m <sup>2</sup>
Smooth, low-absorbing surfaces (concrete) and excessively absorbing surfaces	UNIGRUND (a colour shade closest to the render finish colour)	120 – 200 g/m <sup>2</sup>
	VEZAKRILPRIMER	~300 ml/m <sup>2</sup>

Primers are applied with a painting or masonry brush, while ACRYLCOLOR and AKRIL EMULSION can also be applied with a long-fibre fur or textile paint roller or by spraying. The application of a render finish should start only when a primer is dried through. In normal conditions ( $T = +20\text{ }^{\circ}\text{C}$ , relative air humidity = 65 %), the drying time for UNIGRUND is at least 12 hours, for VEZAKRILPRIMER at least 24 hours, while for ACRYLCOLOR and AKRIL EMLSION from 4 to 6 hours.

## 5. Preparation of Render Finish for Application

Prior to application, stir the render finish with an electric mixer, and, if necessary (only exceptionally), dilute it with water (maximum 1 dl per container). The colour shade must be checked; then, equalize the render finish in order to remove even the slightest or imperceptible differences in colour shade between individual buckets. Stir the content of four buckets well in a large container of appropriate size. When a quarter of the so prepared compound is used, the content of the next bucket is poured into the container and mixed properly with the rest of the render finish, etc. Equalisation of white renders, which belong to the same production batch or to the same production date and which have not been diluted, is not necessary.

Reworking the render finish during application (adding tinting agents, diluting, and similar) is not allowed.

## 6. Render Finish Application

The render finish is applied manually - using a stainless steel smoothing trowel – or by spraying – in the thickness slightly above the diameter of the thickest grain. When the render finish is applied by spraying, follow the instructions of the producer of the mechanical equipment. Immediately after the application, smooth the surface with a solid plastic finishing trowel. Perform the smoothing by circular strokes until an evenly grained structure is achieved. Move the grains in the applied render finish coat as little as possible during smoothing to avoid material bulges in front of the trowel. Reasons for their occurrence are mostly a too thick render layer or an uneven or a not well enough prepared substrate. At the end – a few minutes after smoothing, push protruding lumps into the surface by smoothing the surface slightly using a clean stainless steel smoothing trowel.

Perform the application as fast as possible, without any interruptions from one corner of the wall to the other. When applying the render finish onto wall surfaces higher than one floor, it must be applied simultaneously to all floors: in such cases, always begin the application at the top floor, while performing a phase-delayed “step shift” in lower floors. Larger wall surfaces should be divided into smaller sections by using adequately wide decorative grooves, mortar trims, and other decorations, frames or in any other way. In this manner we avoid potential problems caused by continuous application of the render finish as well as non-aesthetic appearance due to a potentially uneven surface. Joints between planes in inner or outer corners can be made easier by preparing a few cm wide, finely smoothed stripes, which also give a pleasant decorative appearance to processed surfaces. Decorative smoothed stripes, grooves, mortar trims, frames, and similar are usually made prior to the application of the decorative render finish. They are protected by suitable wall paints, while paying attention not to apply coatings encroaching onto surfaces prepared for the application of the render finish.

The application of a decorative render finish is possible only in suitable weather or 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 %. Protect façade surfaces from sun, wind and rainfall with protective scaffold nettings; however, do not conduct any work in rain, fog or strong wind ( $\geq 30$  km/h) despite such protection.

In normal conditions ( $T = +20^{\circ}\text{C}$ , relative air humidity = 65 %), resistance of freshly processed surfaces to damage caused by precipitation (washing away of the application) is achieved in 24 hours at the latest.

Approximate or average consumption:	
JUBIZOL ACRYL FINISH XS 1.5	~2.5 kg/m <sup>2</sup>
JUBIZOL ACRYL FINISH XS 2.0	~3.0 kg/m <sup>2</sup>

## 7. Safety at Work, Waste Management, Tool Cleaning

Protection of eyes with protective glasses or with safety mask is necessary only when applying the decorative render finish by spraying. In all other cases, the use of personal protection means and the application of special measures for safe use are not necessary. Apart from general instructions and regulations for construction and painting works and instructions stated in the safety sheet, please consider also the following warnings:

H413 May cause long lasting harmful effects to aquatic life.

P101 If medical advice is needed, have product container or label at hand.

P102 Keep out of reach of children.

P103 Read label before use.

P 273 Avoid release to the environment.

P 501 Dispose of contents/container in line with local/regional/national/international regulations.

It contains 2-Octyl-2H-isothiazol-3-one, 1,2-Benzisothiazol-3(2H)-one, mix of 5-chloro-2-methyl-2H-isothiazol-3-one and 2-methyl-2H-isothiazol-3-one (3:1). May cause allergic reaction.

Protection of coating from algae and mould is enabled with the content of Terbutryne, zinc pyrithione, 2-Octyl-2H-isothiazol-3-one.

Keep unused render finish in a well-sealed packaging for potential repairs. Deposit hardened remains and wastes onto the dumping grounds of construction waste (waste classification number: 17 09 03\*). Liquid remains shall be deposited onto the dumping ground for waste paints and resins containing organic solvents or other dangerous substances (waste classification number: 08 01 11\*).

Thoroughly clean the tools with water immediately after use. Dried stains cannot be removed. The product or tool cleaning water must not reach ground water, sewage system or surface water. Waste water shall be collected and used during next construction or painting works. Remains of unused waste water shall be handed to an authorised dangerous waste deposit.

Cleaned packaging can be recycled.

## 8. Maintenance and Restoration of Painted Surfaces

Façade surfaces processed with JUBIZOL ACRYL FINISH XS 1.5 or 2.0 do not require any special maintenance. The non-adhering dust and other non-adhering filth can be swept, hoovered or washed away with a water blaster. Adhering dust and more obstinate stains can be removed by light rubbing with a soft brush soaked into a solution of usual universal household preparations and washed away by clean water.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is recommended. In such cases, apply two coats of the micro-reinforced façade paint REVITALCOLOR AG or REVITALCOLOR SILICONE onto a prior coat of an appropriate primer.

## 9. Storage, Transportation Conditions and Durability

Storage and transportation at temperatures between  $+5^{\circ}\text{C}$  and  $+25^{\circ}\text{C}$ , protected from direct sunlight, out of the reach of children, MUST NOT FREEZE!


Shelf life when stored in originally sealed and undamaged packaging: at least 12 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. We constantly monitor the declared or set quality level in our own labs, at the Construction Institute in Ljubljana and occasionally also at other independent institutions at home 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, 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.

The adequacy of JUBIZOL ACRYL FINISH XS 1.5 and 2.0 as finishing coatings in the JUB façade ETIC systems has been approved with the European Technical Approval (ETA). In accordance with the ETAG 004/2000 guidelines, the testing was performed at the Construction Institute in Ljubljana.



	
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Identification code of type of product: 10.02.41 Decl. of Performance No.: 001/14-JUBIZOL ACRYL FINISH (XTG) XS	
<b>SIST EN 15824</b> External render finish based on organic binders	
Water vapour permeability	V2
Water absorption	W3
Adhesion	≥0.3 MPa
Thermal conductivity $\lambda_{10, dry}$	0.83 W/mK, P = 50 % (tab. value EN 1745)
Reaction to fire	A2

## 11. Other Information

The 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  $\Delta E_{2000}$  for shades from the JUB's PAINTS AND RENDERS or ALL THE SHADES OF YOUR FAVOURITE FEELINGS colour charts – it is determined in accordance with the ISO 7724/1-3 and with a mathematical model CIE DE2000 – does not exceed 2.5. In order to check the colour shade, a dry application of render finish 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 render finish made on the basis of other samplers and colour charts is the best possible approach 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, overly or not enough absorbing surface, more or less coarse surface, 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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