

TECHNICAL SHEET 10.02.29-ENG

DECORATIVE RENDERS



JUBIZOL FINISH S 1.0

Siloxane acrylic smooth render finish for reveals and decorative façade elements

1. Description, Application

JUBIZOL FINISH S 1.0 is a thin-coat precious render finish based on polymeric binders with a characteristic equally grained surface. It is intended for decorative protection of reveal surfaces, decorative edges of window and door openings, installed installation boxes and other openings on facades. It can also be used to process corners and angled edges on buildings in bands that are a few centimetres wide. It can also be used to manufacture bands in width of a few centimetres that adequately distribute larger wall surfaces to several smaller ones. We have enabled improved adhesion of protective bands using a special chemical composition. It adheres well to all finely coarse construction surfaces: base coats of JUB's facade thermal-insulation systems, conventional fine lime-cement and cement renders, smoothed concrete surfaces, as well as fibre-cement boards and gypsum-cardboards, chipboards and similar.

In addition to **high hardness**, it is also distinguished by **high water repellence**. Due to its high water vapour permeability, it can also be used for the manufacture of reveal surfaces and decorative edges in contact facade ETICS systems on mineral wool. **Good resistance to the effects of smoke, ultraviolet rays and other atmospheric factors** guarantees the product its **resistance in any climate conditions**, even on façade surfaces of tall buildings with short projecting or even without eaves, exposed to heavy rainfall. Treated surfaces are provided with **long-term resistance to contamination with wall algae and mould**. Therefore, **it is not necessary to add any biocidal substances prior to application**.

2. Packaging, Colour Shades

Plastic containers containing 25 kilos:

- White (shade 1001)
- colour shades of the JUB PAINTS AND RENDERS colour chart (on JUMIX tinting stations at points of sale) : colours whose last digit of a 4-digit code is 2,3,4, or 5.
- colour shades of the JUB FAVOURITE FEELINGS colour chart (on JUMIX tinting stations at points of sale): colours whose final letter of a 4-digit code is C, D, E, or F.
- Delivery in shades designed at a special request of the customer is possible under certain conditions.

3. Technical Data

		JUBIZOL FINISH S 1.0
Density (kg/dm ³)		~1.70
Drying time – touch dry T = +20 °C, relative air humidity = 65 % (hours)		~6
Water-vapour permeability EN ISO 7783-2	μ coefficient (-)	<90
	S _a value (m)	<0.09 (for d = 1.0 mm) Class V1 (high water-vapour permeability)



Water absorption w_{24} EN 1062-3 ($\text{kg/m}^2\text{h}^{0,5}$)	<0.06 class W3 (low water absorption)
Adhesion to conventional lime-cement plaster (1 : 1 : 6) EN 24624 (MPa)	>0.30

Main ingredients: dispersion binder, coarse and fine calcite and aluminium-silicate fillers, cellulose and associative thickening agents, titanium dioxide, siloxane additives, water

4. Surface Preparation

The surface should be slightly rough (ideal is the roughness of a conventionally smoothed fine render of 1.0 mm granulation), solid (compressive strength of at least 1.5 MPa – CS II according to EN 998-1), dry and clean, without weakly-adhered 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 the decorative render finish, the newly applied base coats have to dry at least 7 to 10 days for each cm of their 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 %). Remove all coatings, slurries and other decorative coats from old solid renders. After the surface had been cleaned, dust it thoroughly by washing and, if necessary, repair and level it. 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 (depending on absorption and roughness of the surface)
Fine lime-cement plasters and ETICS base coats	UNIGRUND (colour shade as close as possible to the render colour)	120 – 200 g/m^2
	Water-diluted ACRYLCOLOR (colour shade as close as possible to the render colour; ACRYLCOLOR : water = 1 : 1)	90 – 100 ml/m^2
	Water-diluted AKRIL EMULSION (AKRIL EMULSION: water = 1 : 1)	90 – 100 ml/m^2
Smooth, low-absorbent surfaces (concrete, fibre-cement boards) and excessively absorbent surfaces (gypsum-cardboards, chipboards)	UNIGRUND (colour shade as close as possible to the render colour)	120 – 200 g/m^2
	VEZAKRILPRIMER	~300 ml/m^2

Apply them with a paint or masonry brush. ACRYLCOLOR and AKRIL EMULSION can also be applied with a long-fibre fur or textile paint roller or they can be sprayed. The application of render begins only after the primer has completely dried. In normal conditions ($T = +20\text{ }^\circ\text{C}$, relative air humidity = 65 %), the drying time for UNIGRUND is at least 12 hours, for VEZAKRIL PRIMER at least 24 hours, for ACRYLCOLOR and AKRIL EMULSION 4 to 6 hours.

5. Preparation of Render Compound for Application

Prior to usage, the render compound should be thoroughly stirred by using an electric mixer. If necessary (only exceptionally) it should be diluted with water (up to 1 dl per bucket). It is mandatory to check the colour shade, and then the render compound should be equalized in order to eliminate minimum colour differences among buckets. In a



container of appropriate size, first stir content of 4 buckets. When a quarter of the so prepared render compound is used, add to it the content of a new bucket and blend it with the rest of the compound in the equalisation container, etc. Equalisation of white renders that belong to the same production batch and that have not been diluted is not necessary.

Any “repairs” of mortar compound during application (addition of tinting agents, diluting and similar) are not allowed.

6. Application of Mortar Compound

Mortar compound is applied manually - using a stainless steel smoothing trowel – or using a machine, by spraying – in the thickness slightly above the diameter of the thickest sand grain. When mortar compound is applied by spraying, instructions of the producer of mechanical equipment should be followed. Immediately after the application, smooth the surface with a solid plastic smoothing trowel. Smoothing should be performed by circular strokes until an evenly grained structure is achieved. Grains in the applied mortar coat should move as little as possible during smoothing, pushing of the mortar compound in the form of a wave in front of the trowel is not allowed. In most cases, the creation of such a wave can be attributed to over-thickness of the application or to the surface not being prepared well or it being uneven. At the end – a few minutes after smoothing – push mortar lumps sticking out of the render surface into the surface by smoothing the surface slightly using a clean stainless steel smoothing trowel.

It is intended for decorative protection of reveal surfaces, decorative edges of window and door openings, installed installation boxes and other openings on facades. It can also be used to process corners and angled edges on buildings in bands that are a few centimetres wide. It can also be used for preparation of gutters, which adequately divide larger wall surfaces into several smaller ones.

Reveal surfaces, decorative trims and gutters are usually made before the decorative render finish is applied. After they are finished, they are adequately protected so that they are not made dirty when the final coat is applied on facade surfaces.

The application of the mortar compound is possible only in suitable weather or microclimate conditions: the temperature of the air and the wall surface should be between +5°C and +30°C and the relative air humidity should be below 80 %. Protect façade surfaces from sun, wind and rainfall using protective scaffold nettings; however, do not conduct any work in rain, fog or strong wind (≥ 30 km/h) despite such protection.

In normal conditions ($T = +20$ °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.

Indicative or average use: JUBIZOL FINISH S 1.0 ~2.1 kg/m ²
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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.
- P273 Avoid release to the environment.
- P501 Dispose of contents/container in line with local/regional/national/international regulations.

Containing: 2-Octyl-2H-isothiazol-3-one (OIT), mix of 5-chloro-2-methyl-2h-isothiazol-3-one and 2-methyl-2h-isothiazol-3-one (3:1), 1,2-Benzisothiazol-3(2H)-one. 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 (OIT).



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 the following 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 Processed Surfaces

Surfaces processed with JUBIZOL FINISH S 1.0 do not require any special maintenance. Sweep, Hoover or wash with water the non-adhered dust and other non-adhered filth. Remove adhered dust and more obstinate stains by light rubbing using a soft brush soaked into a solution of universal household preparations. Then wash the surface with clean water.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is conducted. In case of facade surfaces, apply two coats of micro-reinforced façade paints REVITALCOLOR AG, REVITALCOLOR SI or REVITALCOLOR SILIKON onto a prior coat of an appropriate primer. In case of interior surfaces, apply two coats of JUPOL GOLD paint.

However, where filth and stains cannot be removed applying the methods described above, renovation painting is conducted. Apply two coats of micro-reinforced façade paints REVITALCOLOR AG ACRYLATE, micro-reinforced façade paint REVITALCOLOR SILICONE, acrylic façade paint ACRYLCOLOR or silicone facade paint JUBOSILCOLOR silicone onto a prior coat of an appropriate primer.

9. Storage, Transport Conditions and Durability


Storage and transport at temperature +5 °C to +25 °C, keep out of direct sunlight, out of reach of children, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 12 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 ensures achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in its own laboratories, and occasionally at the Construction Institute in Ljubljana and at other independent expert institutions in Slovenia and abroad. 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.



	
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Identification code of the type of product: 10.02.29 Number of the DoP: 001/14-JUBIZOL FINISH S	
SIST EN 15824 External render finish based on organic binders	
Water vapour permeability	V1
Water absorption	W3
Bond strength	≥0,3 MPa
Thermal conductivity $\lambda_{10,dry}$	0.83 W/mK, P = 50 % (tab. value EN 1745)
Fire response	A2

11. Other Information

The technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB cannot accept any responsibility for 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 by the mathematical model CIE DE2000 - doesn't exceed 2.5, for shades from the JUB's PAINTS AND RENDERS and FAVOURITE FEELINGS colour charts. To check the stated differences, observe a dried coat of render applied to a standard test surface and standard of subject paint kept at TRC JUB d.o.o.. Render 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 nor sufficiently coarse, to humid or nor dry enough surface, cannot be subject of a complaint.

This technical sheet supplements and replaces all preceding editions. JUB reserves 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 and OHSAS 18001:2007 certificates.

