

TECHNICAL SHEET 10.02.35-ENG DECORATIVE RENDER FINISHES



JUBIZOL TREND FINISH S 1.5 and 2.0

Siloxane acrylic smooth render finish for intensive colours shades

1. Description, Application

JUBIZOL TREND FINISH S 1.5 and 2.0 are intended for preparation of more intensive colour shades of the 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 characteristically equally grained surface no. With innovative combination of tinting agents and base as well as with particularly careful selection of raw materials, with the JUBIZOL TREND FINISH T render finish we have achieved significantly higher light and weather resistance. Even in less favourable exploitation conditions, JUBIZOL TREND FINISH S aging slower. The render finish maintains its unchanged colour shade on surfaces exposed to sun and precipitation for a longer time. It is intended for decorative protection of façade wall surfaces. It adheres well to all finely coarse construction surfaces: conventional fine lime-cement and cement render finishes, smoothed concrete surfaces, as well as fibre-cement and gypsum-cardboards, chipboards, and similar.

In addition to **high strength**, it is also characterized by **high water repellency**. **Good resistance to the effects of smoke, ultraviolet rays and other atmospheric factors** ensure them **resistance in any climate conditions**. The only exception is the protection of **façade surfaces of tall buildings exposed to heavy rainfall with minimum eaves, where we don't recommend them**. Treated surfaces have an assured **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

25 kg plastic containers:

- Colour shades from the JUB PAINTS AND RENDERS colour chart whose code's last figures are 0 and 1 – (on JUMIX tinting stations at points of sale!)
- Colour shades from the JUB FAVOURITE FEELINGS colour chart ending with A, B and partially C – (on JUMIX tinting stations at points of sale!)
- 10 colour shades from the PAINTS AND RENDERS colour chart + 44 colour shades from the JUB FAVOURITE FEELINGS colour chart in the version COOL (available upon previous order – tinting is possible only at JUB d.o.o., Dol pri Ljubljani)
Set of ten render finishes from the PAINTS AND RENDERS colour chart + 44 colour shades from the JUB FAVOURITE FEELINGS colour chart with very low brightness ($Y < 25$) – see the chart below – is offered also in the COOL version. Tinting agents for those products contain special – IR reflecting pigments due to which on sun exposed façade surfaces they tend to warm up less than render finishes of the same colour shades where standard tinting agents were used for tinting.
- Delivery in colour shades designed at a special request of the customer is possible under certain conditions

The list of COOL colour shades is available in the table below

Colour chart	Name of colour shade									
Colour shades from the PAINTS AND RENDERS colour chart	1500	1501	1120	1130	1140	1090	1190	1490	3420	4660
Colour shades from the JUB FAVOURITE FEELINGS colour	010B	010C	020B	020C	030A	030B	040B	050A	060A	060B



chart	070A	070B	080A	080B	090A	090B	090C	100A	100B	100C
Colour chart	Name of colour shade									
Colour shades from the JUB FAVOURITE FEELINGS colour chart	110A	110B	120A	120B	130A	140A	150A	160A	170A	190A
	190B	200A	220A	230A	290A	310A	320A	330A	340A	380A
	385A	385B	400A	400B						

3. Technical Data

		JUBIZOL TREND FINISH S 1.5	JUBIZOL TREND FINISH S 2.0
Density (kg/dm ³)		~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 (-)	<200	<200
	Sd value (m)	<0.30 (for d = 1.5 mm) class V2 (medium water-vapour permeability)	<0.40 (for d = 2.0 mm) class V2 (medium water-vapour permeability)
Water absorption w ₂₄ EN 1062-3 (kg/m ² h ^{0,5})		<0.04 class W3 (low water absorption)	<0.04 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 and aluminosilicate 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 finish 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 °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 shade closest to the render finish colour)	120 – 200 g/m ²
	Water-diluted ACRYLCOLOR (a shade closest to the render finish 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-absorbing surfaces (concrete, fibre-cement boards) and excessively absorbing surfaces (gypsum-cardboards, chipboards)	UNIGRUND (a shade closest to the render finish colour)	120 – 200 g/m ²
	VEZAKRILPRIMER	~300 ml/m ²

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 painting roller or by spraying. The application of a render finish should start only when a primer is dried through. In normal conditions (T = +20 °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 EMULSION 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 bucket). 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 and which have not been diluted, is not necessary.

Any “repairs” of the render finish during application (addition of tinting agents, diluting, and similar) are 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 sand 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°C and +35°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 (≥ 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.

Approximate or average consumption:	
JUBIZOL TREND FINISH S 1.5	~2.5 kg/m ²
JUBIZOL TREND FINISH S 2.0	~3.0 kg/m ²

7. Safety at Work, Waste Management, Tool Cleaning

Protection of eyes with protective glasses or with safety mask is necessary only when applying 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, facade and painting works and instructions stated in the safety sheet, please consider also the following warnings:

H412 Harmful to aquatic life with long lasting effects.

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.

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

The algicidal and fungicide protection of the coat is ensured by content of terbutryn, zinc pyrithione and 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 the 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 TREND FINISH S 1.5, or 2.0 render finishes do not require any special maintenance. The non-adhering dust and other non-adhering filth can be swept, hoovered or washed away with water. 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°C and +25°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 TREND FINISH S 1.5 and 2.0 render finishes as top-coats of JUBIZOL 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.

	
JUB d.o.o. Dol pri Ljubljani 28 SI – 1262 Dol pri Ljubljani 14	
Identification code of type of product: 10.02.35 Decl. of Performance No.: 001/14-JUBIZOL TREND FINISH S	
SIST EN 15824 External render finish based on organic binders	
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 ΔE_{2000} for colour shades from the JUB's PAINTS AND RENDERS or ALL THE SHADES OF YOUR FAVOURITE FEELINGS colour chart – 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 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, overly or not enough absorbing surface, more or less coarse surface, on a wet or not dried enough surface, cannot be subject of complaint.

For External Wall Insulation (EWI) systems, we recommend render finishes with the brightness (Y) over 25. Darker render finishes and render finishes of intensive colour shades, which can be achieved only with organic pigments, are less stable under heavy conditions of use, somewhat less resistant to being washed out by precipitation and tend to chalk more. Complaints regarding changes, which might thus occur on exposed façade surfaces, especially in the form of faster bleaching, will not be accepted. Therefore, one should consult JUB's experts for each case individually regarding conditions for the application of such renders and the maintenance of processed surfaces. The list of such susceptible colour shades is available at stores where JUMIX tinting stations are located as well as in our sales and technical information department.

This technical sheet supplements and replaces all preceding editions. We reserve the right to change and supplement data in the future.

Denomination and date of publishing: **TRC-080/15-pek**, 18 June 2015

JUB kemična industrija d.o.o.

Dol pri Ljubljani 28, 1262 Dol pri Ljubljani, Slovenia
T: (01) 588 41 00 Main Reception Desk
(01) 588 42 17 Sales Department
(01) 588 42 18 or 080 15 56 Technical Support
F: (01) 588 42 50 Sales Department
E: jub.info@jub.si
www.jub.eu



The product has been manufactured in the organisation which holds the following certificates: ISO 9001:2008, ISO 14001:2004, OHSAS 18001:2007

