

TECHNICAL SHEET 10.02.12.04-GBR DECORATIVE RENDER FINISHES



JUBIZOL KULIRPLAST 1.8 premium

Marble acrylic render finish

1. Description, Application

JUBIZOL KULIRPLAST 1.8 premium is acrylic render finish made of coloured quartz granulate. It is intended for decorative protection of all types of finely processed façade surfaces, especially plinths. It adheres well to all fine-coarse construction surfaces including: base-coats of JUB's External Wall Insulation (EWI) systems (it is suitable for systems based on insulation boards made of expanded or extruded polystyrene), classical fine cement plasters, smoothed concrete surfaces, and also to fibre-cement and gypsum-cardboards, chipboards, and similar.

Carefully selected unique colour shades of JUBIZOL KULIRPLAST Premium ensure desired elegance, while combined with colour shades of JUBIZOL facades they ensure the solutions of contemporary architectural trends. Innovative technology of applying the paint with carefully selected pigments and use of the most contemporary binder with high UV protection ensure excellent resistance to weather conditions and product's high water repellence. JUBIZOL KULIRPLAST 1.8 premium has excellent applicative characteristics and it is simple to apply and build in. It is also characterized by **very long treatment time**, which gives it a significant advantage for application in summer months. JUB advises against the application of the product onto surfaces of tall buildings, which are heavily exposed to precipitation (buildings higher than one floor or buildings with short projecting or even without eaves), it is also not suitable for the use on surfaces exposed to permanent influence of humidity. The product is not suitable for protection of horizontal or any walking surfaces. Surfaces rendered with this finish 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. Colour shades, packaging

Plastic containers holding 25 kilos:

- 15 colour shades: 600, 605, 610, 615, 625, 630, 635, 640, 645, 655, 660, 665, 670, 675 and 685
- 9 colour shades of the existing JUBIZOL KULIRPLAST 2.0 mm: 405P, 440P, 445P, 450P, 455P, 470P, 480P, 490P and 495 P

ATTENTION! The render finish is made of coloured quartz granulate, therefore there may appear slight differences between colour shades belonging to individual deliveries and samples in colour charts!

3. Technical Data

Density (kg/dm ³)		~1.67
Drying time T = +20 °C, relative air humidity = 65 % (hours)	Touch dry	~24
	Resistance of the surface to being washed out by drainage water is achieved	~48
Water-vapour permeability EN ISO 7783-2	coefficient μ (-)	<100



	S_d value ($d = 2.0$ mm) (m)	<0.18 class II (medium water-vapour permeability)
Water absorption w_{24} EN 1062-3 ($\text{kg/m}^2\text{h}^{0.5}$)		<0.20 class II (medium water absorption)
Adhesion to standard lime-cement render (1 : 1 : 6) EN 24624 (MPa)		>0.5

Main ingredients: acrylate binder, coarse silicate fillers, cellulose and associative thickening agents

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 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 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: $T = +20$ °C, relative air humidity = 65 %). All coatings, slurries and other decorative coats have to be removed from old solid plasters/renderers. 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. In the case of application of shade 600 (black) to thermal insulation system, it is necessary to thicken and reinforce the base coat with double JUBIZOL REINFORCEMENT MESH. Joint thickness of the base coat should not be less than 5.0 mm. Also, on such systems dilatations must be made which should be apart from each other at maximum 10 – 15 m. The minimum width of the dilatation crack is 2.0 cm.

Prior to application of decorative render, coat the surface with UNIGRUND. Selected it in a shade closest to the render finish colour under the PAINTS AND RENDERERS colour chart (on JUMIX tinting stations at points of sale);

Table 1: Colour shades from the colour chart JUB PAINTS AND RENDERERS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	600	605	610	615	625	630	635	640
Recommended shade of JUBIZOL UNIGRUND for primer	1500	1503	1503	1183	1083	1443	1093	1182

Table 2: Colour shades from the colour chart JUB FAVOURITE FEELINGS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	600	605	610	615	625	630	635	640
Recommended shade of JUBIZOL UNIGRUND for primer	010A	010C	010B	160C	300D	130D	150D	060C

Table 3: Colour shades from the colour chart JUB PAINTS AND RENDERERS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	645	655	660	665	670	675	685	405P
Recommended shade of JUBIZOL UNIGRUND for primer	1093	1093	1504	1123	2452	1093	1092	2452

Table 4: Colour shades from the colour chart JUB FAVOURITE FEELINGS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	645	655	660	665	670	675	685	405P
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Recommended shade of JUBIZOL UNIGRUND for primer	150C	150C	170C	320C	170D	120C	070B	180B
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Table 5: Colour shades from the colour chart JUB PAINTS AND RENDERS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	440P	445P	450P	455P	470P	480P	490P	495P
Recommended shade of JUBIZOL UNIGRUND for primer	1494	1120	1120	2171	1495	1492	1493	1494

Table 6: Colour shades from the colour chart JUB FAVOURITE FEELINGS recommended for priming

Colour shade of JUBIZOL KULIRPLAST 1.8 premium	440P	445P	450P	455P	470P	480P	490P	495P
Recommended shade of JUBIZOL UNIGRUND for primer	330C	330A	330A	330B	160D	010F	040C	040D

Apply the primer by using a paint brush suitable for the application of dispersion coats or a long-bristle fur or textile painting 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), in one coat. When applying the paint with a roller, use a suitable bucket grid.

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 JUBIZOL UNIGRUND is at least 12 hours.

Primer consumption (depending on absorption and roughness of the surface):	
JUBIZOL UNIGRUND	120 – 200 g/m ²

5. Preparation of Render Finish for Application

Prior to application, **slightly stir** the render finish with an electric mixer at low RPM (~ 250 revolutions/minute) so that it becomes homogenous; minimum diluting with ACRYL EMULSION is allowed in exceptional cases (maximum 1 dl per container).

WARNING!

If render finishes of different production batches are applied onto an individual wall surface, the render finishes should be equalised in a container of appropriate size. First, **slightly stir** the content of four buckets. When a quarter of the so prepared compound is used, the content of the next bucket is poured into the container and **slightly mixed** again with the rest of the render finish, etc.

Reworking the render finish during application (diluting and similar) is not allowed.

6. Render Finish Application

Apply the prepared render finish manually using a stainless-steel smoothing trowel in thickness of ~2, 3 mm. Remove the redundant material with a stainless-steel smoothing trowel. Immediately after the application, level the surface of the render finish with a stainless-steel smoothing trowel and smooth it to fill all empty spaces between the grains and for the surface to become as evenly structured as possible. 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 surface. Always perform smoothing in one direction only. At the end, push the protruding lumps into the surface by smoothing the surface slightly using a clean stainless-steel smoothing trowel. Milky white appearance of the application will disappear when the render finish hardens.

Perform the application as fast as possible – without any interruptions – from one corner of the wall to the other. Larger wall surfaces should be divided into smaller sections by using adequately wide grooves, mortar trims, and other decorations, frames or in any other way. In this manner you avoid potential problems caused by continuous application of the render finish as well as the non-aesthetic appearance caused by a potentially uneven surface. Joints between planes in inner or outer corners can be done more easily by preparing finely smoothed stripes, which are a few cm wide and



which also give a pleasant decorative appearance to processed surfaces. Apply decorative smoothed stripes, grooves, mortar trims, frames, and similar prior to the application of the decorative render finish. Protect them with suitable wall paints, while paying attention not to apply coatings encroaching onto surfaces prepared for the application of the render finish.

The application of 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 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 ($T = +20^{\circ}\text{C}$, relative air humidity = 65 %), resistance of freshly processed surfaces to damage caused by precipitation (washing away of the application) is achieved in 48 hours at the latest. In case of low temperatures and high relative air humidity this time can be significantly longer. In case of longer moistening of render, a milky look may appear on it. However, this look will disappear immediately as the render dries.

Approximate or average consumption:
JUBIZOL KULIRPLAST 1.8 premium

~4.5 kg/m²

7. Tool Cleaning, Waste Management

Thoroughly clean the tools with water immediately after use. Dried stains cannot be removed.

Keep unused decorative render finish in a well-sealed packaging for potential repairs or later use. Waste liquid remains must not be emptied into drains, watercourses, or environment and they must not be disposed together with domestic wastes (except smaller quantities). Mix them with cement (hardened mortar remains and wastes, sand or sawdust may be added to them) and when they harden, deposit them onto the dumping grounds of mixed construction waste and construction waste produced during demolition and which are not included in 17 09 01, 17 09 02 and 17 09 03 (waste classification number: 17 09 04). Liquid remains shall be deposited onto the dumping ground for waste paints and lacquers not included in 08 01 11 (waste classification number: 08 01 12). Cleaned packaging waste (15 01 02) is collected separately and is handed into recycling to an authorised transferee or at collection centres for waste of this kind.

8. Safety at Work and First Aid Measures

During handling and application of the product, 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:

Description of first aid measures	<p>General instructions: No special measures are necessary.</p> <p>In case of inhalation: Inflow of fresh air and, in case of problems seek medical advice.</p> <p>In case of contact with skin: In general, the product doesn't irritate skin.</p> <p>In case of contact with eyes: Immediately widen the eyelids, rinse thoroughly with clean water for a few minutes.</p> <p>In case of ingestion: If problems persist, seek medical advice.</p>
Components which define dangers and should be labelled	/
Special measures, warnings and observations required	<p>Hazard Statements N/A</p> <p>Precautionary Statements N/A</p>



for safe work	
Additional data	It contains 2-Octyl-2H- isothiazol -3-one, the compound of: 5-chloro-2-methyl-2H-isothiazol-3-one [EC No. 247-5007] and 2-methyl-2H-isothiazol-3-one [EC No. 220-239-6] (3:1). It may cause allergic reaction. Safety sheet available upon request.

9. Maintenance and Restoration of Painted Surfaces

Façade surfaces processed with JUBIZOL KULIRPLAST 1.8 premium 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.


10. 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, IT MUST NOT FREEZE!

Shelf life when stored in an originally sealed and undamaged packaging: at least 18 months.

11. 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 constantly monitors the declared or set quality level in its own laboratories, at the ZAG Construction Institute in Ljubljana and occasionally also at other independent institutions in Slovenia 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, 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.

	
JUB d.o.o. Dol pri Ljubljani 28 SI – 1262 Dol pri Ljubljani 15	
Identification code of type of product: 10.02.12.04 Decl. of Performance No.: 001/15-JUBIZOL KULIRPLAST 20	
SIST EN 15824 Exterior and interior render finish based on organic binders	
Water-vapour permeability	V2
Water absorption	W2



Adhesion	>0.5 MPa
Thermal conductivity $\lambda_{10, \text{suh}}$	0.67 W/mK, P = 50 % (tab. value EN 1745)
Response to fire	NPD

12. Other Information

The technical instructions in this brochure are given based on JUB's experience and as a guideline for achieving optimum results. All guarantees for the product's characteristics apply only for the comprehensive JUB system. JUB cannot accept any responsibility for the damage caused by incorrect selection of a product, incorrect use or unprofessional work.

The render finish is made of coloured quartz granulate; therefore, there may appear slight differences between colour shades belonging to individual deliveries and samples in colour charts. These differences cannot be subject to a complaint!

JUB does not accept any responsibility for a difference in colour shade, which is the result of unsuitably prepared surface, of failure to follow the equalisation rules at the preparation of the render finish, and/or of the application of the product in unsuitable weather conditions (high relative air humidity, low temperatures). Spotty surfaces can be repaired only if they are re-coated with a new render finish.

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.

