

TECHNICAL SHEET 10.02.12.04-ENG
 DECORATIVE RENDER FINISHES


KULIRPLAST 1.8 Premium

Acrylic marble render

1. Description, Application

KULIRPLAST 1.8 Premium is a render finish made of coloured quartz granulate. It is intended for decorative protection of all types of fine plastered façade surfaces, especially plinths. It adheres well to all fine-coarse construction surfaces including: base-coats of 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 Kulirplast Premium ensure desired elegance, while combined with 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. 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. 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 litres:

8 colour shades: 600, 610, 620, 630, 640, 650, 660 and 670

ATTENTION! The render finish is made of coloured quartz granulate, therefore there may appear slight differences between 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 (-)	<230
	S _d value (d = 2.0 mm) (m)	<0.70 class II (medium water-vapour permeability)



Water absorption w_{24} EN 1062-3 ($\text{kg/m}^2\text{h}^{0,5}$)	<0.42 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: $T = +20\text{ }^\circ\text{C}$, relative air humidity = 65 %). All 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. 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. The joint thickness of the base coat should not be less than 5.0 mm. Also, on such systems, expansion joints must be made which should be apart from each other at maximum 10 – 15 m. The minimum width of such an expansion joint gap 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 RENDERS colour chart (on JUMIX tinting stations at points of sale);

Colour shade of KULIRPLAST 1.8 Premium	600	610	620	630	640	650	660	670
Recommended shade of UNIGRUND for primer	1500	1504	1474	1444	1183	1442	1505	2452

Apply the primer in one coat 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), or spray it. 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 ($T = +20\text{ }^\circ\text{C}$, relative air humidity = 65 %), the drying time for UNIGRUND is at least 12 hours.

Primer consumption (depending on absorption and roughness of the surface): UNIGRUND	120 – 200 g/m^2
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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 render finish 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 +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 ($T = +20^{\circ}\text{C}$, 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. Should the render be exposed to humidity for a longer period in time, a milky look may appear on it. However, this look will disappear immediately as the render dries.

Approximate or average consumption: KULIRPLAST 1.8 Premium	~4.5 kg/m ²
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7. Tool Cleaning, Waste Management

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

Keep unused render finish in a well-sealed packaging for potential repairs. Remove fresh waste resulting from the use of the product in accordance with regulations on waste planning (classification number 08 01 12). Deposit hardened remains and wastes onto the dumping grounds of construction waste (waste classification number: 17 09 04). Cleaned waste packaging (15 01 02) is collected separately and handed in for recycling to registered transferee or at an assembly centre for waste of this kind.

8. Safety at Work

Follow general instructions and regulations for construction, plastering or painting works, the use of personal protection means and the application of special measures for safe use at the application of KULIRPLAST 1.8 Premium are not necessary.

9. Maintenance and Restoration of Painted Surfaces

Façade surfaces processed with 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 12 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.

	
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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 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.