

TECHNICAL SHEET 08.02.04-EN



JUBIZOL Kulirplast 1,8 2K

Two-component decorative render finish

1. Description, Application

JUBIZOL Kulirplast 1,8 2K is acrylic render finish made of coloured marble and 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. Carefully selected unique colour shades of JUBIZOL Kulirplast 1,8 2K 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 2K 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

- 25 colour shades:

- 9702 - JUBIZOL Unigrund 170D(FF)* 105D(HC)*
- 9704 - JUBIZOL Unigrund 150C(FF)* 215C(HC)*
- 9706 - JUBIZOL Unigrund 030A(FF)* 010B(HC)*
- 9707 - JUBIZOL Unigrund 150B(FF)* 155B(HC)*
- 9709 - JUBIZOL Unigrund 240D(FF)* 475D(HC)*
- 9710 - JUBIZOL Unigrund 370A(FF)* 405C(HC)*
- 9712 - JUBIZOL Unigrund 420A(FF)* 345B(HC)*
- 9901 - JUBIZOL Unigrund 330C(FF)* 425C(HC)*

9902 - JUBIZOL Unigrund 330B(FF)* 425B(HC)*
9903 - JUBIZOL Unigrund 385D(FF/HC)*
9904 - JUBIZOL Unigrund 020D(FF)* 020C(HC)*
9905 - JUBIZOL Unigrund 400C(FF)* 345C(HC)*
9440 - JUBIZOL Unigrund 330C(FF)* 425C(HC)*
9445 - JUBIZOL Unigrund 330A(FF)* 430A(HC)*
9450 - JUBIZOL Unigrund 330A(FF)* 425A(HC)*
9470 - JUBIZOL Unigrund 160D(FF)* 125E(HC)*
9480 - JUBIZOL Unigrund 020F(FF/HC)*
9490 - JUBIZOL Unigrund 040C(FF)* 045C(HC)*
9495 - JUBIZOL Unigrund 040D(FF)* 045D(HC)*
9906 - JUBIZOL Unigrund 150C(FF)* 165B(HC)*
9907 - JUBIZOL Unigrund 010A(FF/HC)*
9908 - JUBIZOL Unigrund 040C(FF)* 010C(HC)*
9909 - JUBIZOL Unigrund 180B(FF)* 085B(HC)*
9910 - JUBIZOL Unigrund 180C(FF)* 085C(HC)*
9911 - JUBIZOL Unigrund 400B(FF)* 345B(HC)*

* FF - Favourite Feelings colour chart / *HC - Home of Colours colour chart (Shades are for informational purposes only)

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!

Packaging:

Component A - base for making 2K kulirplast - 6.3kg

Component B - kulirplast decorative stone (colored, black and white) - bags of 3 and 25 kg

3. Technical data

Packaging (A+B)		24,3 kg
Density (A)		~1 kg/dm ³
Dilution with another product		//
Layer thickness		~2,3 mm
Drying time T = +20 °C, relative air humidity = 65 %	Touch dry	~24 h
	To achieve resistance against leaching with rainwater	~48 h
Average consumption		~4 kg/m ²
Vapor permeability EN ISO 7783-2	coefficient μ	<15
	value Sd (d = 1,8 mm)	<0.03 m (class 1)
Water absorbtion w24 (EN 1062-3)		<0.5
Water absorbtion class		W2
Adhesion to conventional lime cement (EN 4624)		>0.5 MPa

4. Installation Conditions

Temperature of air and wall surface should not be lower than +5 °C or higher than +30 °C, and relative air humidity should be <80 %. Façade surfaces should be protected from the sun, wind and precipitation by using curtains, and despite this protection, the rendering should not be done during rain, fog or strong wind (≥ 30 km/h).

5. 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.

The base is coated with JUBIZOL Unigrund primer, chosen in a shade as close as possible to the color of the render (recommended shades given in the chapter "2. Color Shades").

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 %), at least 12 hours after application of base coat.

For technical information on these primers, please read the technical data sheet.

6. Preparation of Render Finish for Application

Prior to application, we prepare the render finish by gently mixing components A and B together according to the defined ratios with an electric mixer at low RPM (~ 250 revolutions/minute) so that it becomes homogenous. Add 18 kg of component B – JUB decorative colored granulate to 6.3 kg of Kulirplast emulsion (component A). Thinning is not necessary. In exceptional cases, if JUBIZOL Kulirplast 1,8 2K is too thick for installation, extended mixing results in a homogeneous solution suitable for installation.

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.

7. Application of Render Finish

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.

In normal conditions ($T = +20\text{ }^{\circ}\text{C}$, 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.

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

8. Maintenance and Restoration of Treated Surfaces

Façade surfaces processed with JUBIZOL Kulirplast 1,8 2K 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 can be removed by light rubbing with a soft brush and washed away by clean water.

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. Other Information

Technical instructions 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. JUB also bears no responsibility in cases where the substrate for the application of our products is prepared inadequately or with materials of inadequate quality from other manufacturers. In the case of applying our products to existing substrates of old coatings or pre-prepared substrates with materials from other manufacturers, it is obligatory to make appropriate test fields with all the intended applications of JUB products, in accordance with the technical instructions, before starting the work.

Safety measures: Follow the instructions on the safety data sheet of the product.

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).

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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