

TECHNICAL SHEET 08.01.40-EN



JUBIZOL Unixil finish winter S 1,5 MM

Siloxanized smooth render finish

1. Description, Application

JUBIZOL Unixil finish winter S 1,5 MM, together with JUBIZOL Additive winter, are used for install of the top-coat of JUBIZOL External Thermal Insulation Composite (ETIC) systems, based on polystyrene insulation, at low temperatures and high relative air humidity. The product mixture enables application at temperatures between +1° C and +15°C and relative air humidity of up to 95%. The mixed product applied is resistant to rainwater after 24 hours (T = +5 °C, relative air humidity = 90 %). It is based on polymeric binders, with a characteristically textured surface. These renders provide decorative protection to façade wall surfaces of all types of buildings including multi-storey buildings with minimum projecting eaves. They adhere well to all finely rough construction surfaces: conventional fine limecement and cement renders, smoothed concrete surfaces, as well as fibre-cement and gypsum-cardboards, chipboards, and similar.

The selected ratio between fine and rough fillers and a combination of modern thickening agents, and substances for water retention assure these render finishes low toughness enabling easier application and expansion as well as significantly longer processing time of the applied render finishes. The high content of siloxane additives in JUBIZOL Unixil finish winter S 1,5 MM renders ensures high water repellence and high resistance to smoke, ultraviolet rays and other atmospheric factors and, consequently, solid resistance in any climate conditions. They are also characterised by high hardness and due to relatively high water-vapour permeability, which is not typical for acrylic render finishes, they may also be applied as the final render finish to EWI systems made on mineral wool. Surfaces rendered with these finishes 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

- White (shade 1001)
- 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 of render finishes in shades designed on special request of the customer is possible under certain conditions.

3. Technical data

| | | |
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| Packaging | | 25 kg |
| Density | | ~1.8 kg/dm ³ |
| Water dilution | | 1 dL/bucket |
| Layer thickness | | ~1,5 mm |
| Drying time T = +1 °C, relative air humidity = 95 % | Touch dry | ~12 h |
| Drying time T = +5 °C, relative air humidity = 90 % | To achieve resistance against leaching with rainwater | ~24 h |
| Average consumption | | ~2.2 kg/m ² |
| Vapor permeability EN ISO 7783-2 | coefficient μ | <120 |
| | value Sd (d = 1,5 mm) | <0.18 m class 2 |
| Water absorption w ₂₄ (EN 1062-3) | | <0.05 kg/m ² *h ^{0,5} |
| Water absorption class | | class W3 |
| Adhesion according to EAD 040083-00-0404, point 2.2.20.2 | | >0.3 MPa |

4. Installation Conditions

Temperature of air and wall surface should not be lower than +1 °C or higher than +15 °C, and relative air humidity should be <95 %. 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 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/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.

The base is coated with JUBIZOL Unigrund primer, chosen in a shade as close as possible to the color of the render.

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 %), 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

Add the entire content of 1 (one) 0.5L-bottle of JUBIZOL Additive winter to the render material in 1 (one) 25 kg-tub of JUBIZOL Unixil finish winter S 1,5 MM. Prior to application, stir the render finish with an electric mixer. 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. The pot life ("open time") of the render-additive mixture is 2 hours (counting from the moment when mixed).

Reworking the render finish during application (adding tinting agents, diluting, and similar) is not allowed.

7. Application of Render Finish

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 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.

8. Maintenance and Restoration of Treated Surfaces

Façade surfaces processed with JUBIZOL Unixil finish winter S 1,5 MM 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 or SILICONECOLOR 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. 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.

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

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 shades from JUB's FAVOURITE FEELINGS colour charts – 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 approach 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.

If applied within External Wall Insulation systems, render finishes shall have 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 about 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 departments.

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

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