

TECHNICAL SHEET 15.03.01-EN



JUBOSAN R 100

Micro-reinforced façade levelling compound

1. Description, Application

JUBOSAN R 100 is a micro-reinforced façade levelling compound processed with polymeric binders and having an exceptionally low elasticity module. It is used mainly for smoothing of roughly processed (also cracked) façade surfaces (lime-cement, cement, acrylic and other decorative render finishes applied on conventional surfaces or External Wall Insulation (EWI) systems), and also for smoothing of decrepit decorative render finishes on interior wall and ceiling surfaces. It qualitatively replaces conventional masonry treatments of interior or façade surfaces of walls made of porous concrete if it is applied onto such surfaces as a levelling compound since it is, unlike conventional render finishes applied to such surfaces, not susceptible to cracking. If it is reinforced with ACRYL Emulsion, a quality mortar compound is obtained. It is used to repair façade cornices, decorative window and door trims and similar façade decorations. If necessary, the compound can be reinforced with a suitable – vinyl-covered glass fibre mesh.

JUBOSAN R 100 is a suitable surface for the application of thin- or thick-coat decorative render finishes as well as for being smoothed with fine render finishes or levelling compounds.

2. Technical data

Packaging		20 kg
Density (ready-to-use mortar compound)		~1.52 kg/m ³
Water dilution mass		~25 %
Layer thickness		~4 mm
Drying time T = +20 °C, relative air humidity = 65 %	Touch dry	~6 h
	To achieve resistance against leaching with rainwater	~24 h
Average consumption		~1.4 kg/m ² /mm
Vapor permeability EN ISO 7783-2	coefficient μ	<30

	value Sd (d = 4 mm)	<0.12 m class 1
Water absorbtion w24 (EN 1062-3)		<0.11 kg/m ² *h ^{0,5}
Water absorbtion class		W2
Compressive strength (EN 1015-11)		14 MPa
Compressive strength class		CS IV
Adhesion (EN 1015-12)		0,7 MPa; 100 % B B ... fracture in the render finish
Adhesion after weathering (EN 1015-21)		0,7 MPa; 30 % A, 70 % B A ... fracture in the contact surface / render finish B ... fracture in the render finish
Reaction to fire		A1
Thermal conductivity		~0,93 W/mK;

3. Installation 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 facade 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.

4. Surface Preparation

The surface includes well-adhered mineral, acrylic, silicone or silicate decorative render finish or rough base coat if it is solid enough, dry and clean, without any badly-adhered particles, dust, water soluble salts, oils stains and other filth. Suitable surfaces also include surfaces of walls made of porous concrete. Hoover or sweep dust and other non adhered filth, and wash away the non-decomposed remains of panelling oils from concrete surfaces with a high pressure water blaster (hot water or steam). Remove all badly-adhered paint coats and coatings, all of which soak in water, from the already painted surfaces. It is obligatory to disinfect surfaces infected with wall mould prior to applying the levelling compound.

Prior to application of the levelling compound, dry or mature the newly applied render finishes for at least 7 to 10 days for each cm of their thickness (the stated drying times of the surface are valid in normal conditions: T = +20 °C, relative air humidity = 65 %).

Prior to the application of the levelling compound, coat the surface with diluted ACRYL Emulsion and apply the JUBOSAN R 100 onto the still wet primer if possible.

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

5. Preparation of Mortar Compound for Application

Prepare the levelling compound in a concrete mixer or a suitable container (if mixed with an electric mixer or manually) by pouring the content of a bag (20 kilos) into 4.6 to 5 liters of water. Stir until the compound becomes homogenous. Wait for minutes for the compound to swell. Then stir it well again. If necessary, add some water.

If the mortar compound is used to repair façade trims, cornices and other decorations, reinforce it by replacing 2 liters of water with 2 kilos of ACRYL Emulsion.

The prepared compound must be used within approximately 2 hours.

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

6. Application of Mortar Compound

Apply one or two, exceptionally three coats of the mortar compound manually with a notched steel smoothing trowel (width and depth of notches 8 to 10 mm) or spray it – suitable machines include aggregates for the application of fine mortar mixtures.

One-coat application:

Apply the mortar compound manually or mechanically onto a still wet undercoat and level and smooth the surface well with a stainless steel smoothing trowel. For the application of the MINERAL SCRATCH RENDER, suitably groove the surface.

Two-coat application:

Apply two coats of the render finish in the case of renovation of badly cracked render finishes and treatment of façade surfaces made of porous concrete. In both cases it is necessary to additionally reinforce individual parts or the total of processed surfaces with a vinyl-covered glass fibre mesh. Apply the first coat in the same manner as in the case of one-coat application. Thickness of the coat should be between at least 2 and maximum 4 mm.

Immediately after the application, imprint a reinforcement mesh into it. After it has dried (at least 1 day for each mm of its thickness), apply the upper coat, which should be 1 mm thick at the most. Level and smooth the surface with circular movements to the maximum possible degree. In the case of application of the MINERAL SCRATCH RENDER, thicken the upper coat to at least 2 mm and groove it.

Three-coat application:

Apply three coats of the render finish in the case of levelling of larger uneven parts. Apply the first coat in the same manner as in the case of one-coat application. Its thickness should not exceed 4 mm. Apply the second coat in thickness of at least 2 and maximum 4 mm onto the first coat after four or five days. Immediately after the application imprint a reinforcement mesh into it. After it has dried (at least 1 day for each mm of its thickness), apply the upper coat, which should be 1 mm thick at the most. Level and smooth the surface with circular movements to the maximum possible degree. In the case of application of the MINERAL SCRATCH RENDER, thicken the upper coat to at least 2 mm and groove it.

In the case of multiple-coat application of the LEVELLING RENDER, respect rules for the application of base coats in contact External Wall Insulation (EWI) systems (application of reinforcement corner fittings on corners and reveal edges, application of additional diagonal reinforcement in corners of façade openings, switching of reinforcement mesh and similar).

7. Storage, Transportation Conditions and Durability

During transportation, protect the product against moistening. Store in dry and airy places, out of the reach of children!

Shelf life when stored in an originally sealed and undamaged packaging: at least 9 months.

8. 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.

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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