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JUB kemična industrija d.o.o.
Dol pri Ljubljani 28
SI-1262 Dol pri Ljubljani
Slovenija

Ustvarjamo barvito ugodje bivanja

TECHNICAL SHEET 12.01.02 - Eng
LEVELLING AND RENOVATION RENDERS, MORTARS FOR RENOVATION OF CONCRETE

CE

JUBOSAN W130

Renovation render

1. Description, Application

JUBOSAN W130 is industrially made dry render compound based on hydraulic binders. It is intended to be applied onto damp walls instead of old removed, damaged and salt-laden renders. It meets the WTA (Wissenschaftlich-Technische Arbeitsgemeinschaft für Bauwerkserhaltung und Denkmalpflege e.V.) requirements as far as all characteristics are concerned.

The strongly porous (the form and size of pores in the render successfully prevent capillary occurrences), water vapour permeable and water repellent JUBOSAN W130 enables large quantities of salt to accumulate in its pores. Until pores are filled with salt, its surface is dry regardless of the level of dampness in the wall. It is thus possible to simply apply different decorative renders onto it or paint it.

2. Packaging

Paper bags containing 12 kilos

3. Technical Data

Quantity of air pores in fresh mortar (vol. %)		>25
Drying time T = +20 °C, relative air humidity = 65 % (hours)		~6 (touch dry) ~24 (resistant to damage caused by precipitation)
Hardened compound density: (kg/dm^3)		~0.9
Hardened mortar porosity (vol. %)		>40
Resistance to salt accumulation		Resistant
Water-vapour permeability EN 1015-19	μ coefficient (-)	<15
	S_d value (m)	<0.60 (for average thickness t = 40 mm)
Water absorption after 24 hours EN 1015-18 ($kilos/m^2$)		>0.30
Compressive strength EN 1015-11 (MPa)		>2.5 CS II

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Flexural strength (MPa)	>1.4
Ratio between compressive strength and flexural strength (-)	<3
Adhesion EN 1015-12 (MPa)	≥ 0.3 60 % B, 40 % C B … fracture in the render C … fracture in the test surface
Response to fire	A1
Thermal conductivity λ (tab. value) (W/mK)	0.83 W/mK, P = 50 % (tab. value EN 1745)

Main ingredients: cement, hydrated lime, polymeric binder, calcite sands, cellulose thickening agent

4. Surface Preparation

The base is JUBOSAN W120, which should be thoroughly wetted with water a day prior to the application of JUBOSAN W130. In warm or windy weather conditions, wet the surface again if necessary one or two hours prior to the application of the plaster.

5. Preparation of Render Compound for Application

Prepare the render compound in a concrete mixer by pouring the content of a bag (12 kilos) into approximately 5 litres of water. After 3 minutes of stirring, check the consistency of the compound and, if necessary, add up to a litre of water during constant stirring. The appropriate consistency is achieved when the mortar stops slipping from the trowel when it is tilted at an angle of 45º. The optimum total stirring time is 5 minutes and it should by no means exceed 7 minutes.

In normal conditions (T = +20 ºC, relative air humidity = 65 %), the prepared mortar compound should be applied within 1.5 hour.

6. Render Finish Application

Apply the mortar using a plastering trowel usually in thickness between 2 and 4 cm, in one application in the maximum thickness of 3 cm. Application thickness is adjusted using wooden distancing laths. Cut the render applied between distancing laths using a wooden or aluminium lath and do not smooth it. Then, remove distancing laths and fill the channels before the render around them hardens. Apply thicker applications (up to 4 cm) in two coats; apply each following coat when the previous one has already partially hardened. In normal conditions (T = +20 ℃, RH = 65 %), this happens in approximately 2 days. Moisten JUBOSAN W130 2 to 3 days after the application especially in hot and windy weather conditions.

Plastered surfaces can be levelled in a day or two with an additional 0.5 cm thick coat of JUBOSAN W130. Smooth the surface using a plastic or wooden plastering smoothing trowel in the same manner as in the case of a classic fine lime or lime-cement render. Level the surface only after the newly applied render begins to bind and wet it suitably during smoothing.

Thoroughly wet the surface of JUBOSAN W130 prior to the application of the levelling coat. Do not level the surface if the renovation render is finalised with JUB's FINE RENDER 0.6 or FINE RENDER 1.0.

ATTENTION!
The minimum still functional thickness of JUBOSAN W130 is 3 cm! Renovation render on facade surfaces in contact with the floor is finished in a wedge-like manner[IVP1]!

In normal conditions (T = +20 ºC, R.H. = 65 %), dry JUBOSAN W130 prior to the application of fine render or other decorative renders or prior to painting at least 7 - 10 days for each cm of its thickness. In unfavourable weather conditions (rain, low temperatures and similar), prolong the drying time appropriately!

The application of the render compound is possible only in suitable weather or microclimate conditions: the temperature of the air and the wall surface should be between +5ºC and +30ºC and the relative air humidity should not exceed 80 %.

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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 ºC, relative air humidity = 65 %), resistance of freshly processed surfaces to damage caused by drainage water (washing away of the application) is achieved within 24 hours at the latest.

Approximate or average consumption (for a 3 cm thick application):
JUBOSAN W130 ~20 kg/m^2

7. Tool Cleaning, Waste Management

Clean the tools with water immediately after use.

Keep unused, dry render compound in a well sealed packaging for potential repairs. Mix unusable remains with water and when they harden, deposit them onto the dumping grounds of construction waste (waste classification number: 17 09 04) or municipal waste (waste classification number: 08 01 12).

Cleaned packaging can be recycled.

8. Safety at Work

In addition to general instructions and regulations for construction or plastering and painting works, please consider that the product contains cement and hydrated lime, and is therefore classified among dangerous preparations labelled as Xi IRRITANT. The content of chromium (Cr 6$^+$) is lower than 2 ppm.

Protection of the respiratory system: the use of a safety mask under very dusty conditions. Protection of hands and body: work clothing, preventive protection with a protection cream and the use of protective gloves are recommended in the case of prolonged exposure of hands. Protection of eyes: protective glasses or a safety mask.

FIRST AID:
Contact with skin: remove clothing which has been wetted, and rinse the skin with water and soap. Contact with eyes: immediately widen the eyelids, rinse thoroughly with clean water (10 to 15 minutes), seek medical advice if necessary. Ingestion: drink little water several times, seek medical advice immediately.

Warning signs on the packaging	Xi  IRRITANT! THE PRODUCT CONTAINS CEMENT AND HYDRATED LIME!
Special measures, warnings and observations for safe work	R 36/38 Irritating to eyes and skin. R 41 Risk of serious damage to eyes. S 2 Keep out of the reach of children. S 24/25 Avoid contact with skin and eyes. S 26 In case of contact with eyes, rinse immediately with plenty of water and seek medical advice. S 28 After contact with skin, wash immediately with plenty of water. S 37/39 Wear suitable gloves and eye/face protection. S 46 If swallowed, seek medical advice immediately and show this container or label.

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9. Storage, Transport Conditions and Durability

Protect the product against moistening during transport. Store in dry and airy places!

Shelf life when stored in an originally sealed and undamaged packaging: at least 6 months.

10. Quality Control

The product's quality characteristics are determined by the internal manufacturing specifications as well as by the Slovene, European and other standards. JUB ensures achieving of the declared or set quality level by the ISO 9001 system for total quality management and control, which has been implemented at JUB for many years and which comprises daily quality checks in our own laboratories, occasionally at the Construction Institute in Ljubljana, and at other independent expert institutions in Slovenia and abroad. During the manufacturing process, JUB strictly complies with the Slovene and European standards for the protection of the environment and for ensuring security and health at work, which has been confirmed by the ISO 14001 and OHSAS 18001 certificates.

CE	
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SIST EN 998-1 Mortar compound for renovation render (R)	
Response to fire	**A 1**
Adhesion	≥ 0.3 N/mm^2, 60 % B, 40 % C
Water absorption	≥ 0.30 kg/m^2
μ Water vapour permeability coefficient	**≤ 15**
Thermal conductivity $\lambda_{10, dry}$	0.83 W/mK, P = 50 % (tab. value EN 1745)
Resistance to freezing/thawing	NPD

NPD: No Performance Determined

11. Other Information

Technical instructions contained in this brochure are provided on the basis of JUB's experience and are given as a guideline to achieve the optimum results. JUB shall not accept any responsibility for damage caused by incorrect selection of a product, incorrect use or unprofessional work.

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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ISO 9001 Q-159
ISO 14001 E - 034
OHSAS 18001 H - 022

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