

**TECHNICAL SHEET 12.01.06-Eng**

LEVELLING AND RENOVATION RENDERS, MORTARS FOR RENOVATION OF CONCRETE

**JUBOSAN C120**

Coarse reprofiling mortar

**1. Description, Application**

JUBOSAN C120 is an industrially prepared one-component dry mortar compound based on hydraulic binders and processed with polymers. It contains fibres that prevent shrinking and improve its physical characteristics.

It is intended for reprofiling and mending of non-construction damages of concrete elements. It is used in renovation of smaller and shallow damages of concrete, and in processing of surfaces renovated with concrete.

**2. Packaging**

Paper bags containing 20 kilos

**3. Technical Data**

Drying time T = +20 °C, relative air humidity = 65 % (hours)	~6 (touch dry) ~24 (resistant to damage caused by precipitation)
Compressive strength Classification under EN 1504-3 (MPa)	>25
Chloride content	< 0.05
Hardened compound density (kg/dm <sup>3</sup> )	~1.98
Capillary water absorption (kg/m <sup>2</sup> h <sup>0,5</sup> ) EN 1504-3	<0.5
E-module Classification under EN 1504-3	≥15
Flexural strength	>15
Adhesion Classification under EN 1504-3 (MPa)	>0.8

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

**4. Surface Preparation**

Concrete surfaces should be clean, solid, dry, without any panelling oils, dust, friable particles and other dirt. Cement laitance wash should also be removed from surfaces before applying renovation mortar.

Good adhesion between the surface and the reprofiling mortar is ensured by suitable roughness of the surface which should be, on average, as high as possible. Roughness of less than 1 mm is not suitable.

Soak the surface with water before applying JUBOSAN C120 so that it does not absorb it capillarily anymore. The surface should fully absorb water while water membrane or water drops should not be visible on the surface since this

would prevent JUBOSAN C120 to adhere onto the surface.

## 5. Preparation of Render Compound for Application

Prepare the mortar compound by pouring the content of a bag (20 kilos) into approximately 4 litres of water during constant stirring. Stir the compound in a suitable container with a manual electric mixer at low RPM, and always be careful not to let air into the compound. After 2-3 minutes of stirring, let the compound rest for 5 minutes so that it swells, and stir it again. If necessary, add a little water to obtain compound of Plasticine consistency that is suitable to be applied by a plastering trowel.

In normal conditions (T = +20 °C, relative air humidity = 65 %), the prepared mortar compound must be used within 30 to 45 minutes.

## 6. Render Finish Application

Apply one coat of mortar with a plastering trowel, a trowel or a smoothing trowel usually in thickness of up to 2 cm. Apply it by rubbing it into the previously applied and still slightly sticky adhesive layer (within approximately 25 minutes after you have applied JUBOSAN C110). If the thickness of the final layer exceeds 2 cm, apply two coats of the reprofilling mortar.

The application of the mortar compound 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 not exceed 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 ( $\geq 30$  km/h) despite such protection.

In normal conditions (T = +20 °C, relative air humidity = 60 %), resistance of freshly processed surfaces to damage caused by drainage water (washing away of the application) is achieved within 24 hours at the latest. In the case of strong sun or wind, protect the mortar against drying out. See to the suitable care of the fresh mortar application.

Take care of the dried JUBOSAN C120 application (especially in conditions of higher temperatures and lower humidity) for 7-10 days. Taking care is performed by primarily ensuring sufficient humidity of the cement product (i.e. JUBOSAN C120).

Approximate or average consumption (for 1 cm thick application): JUBOSAN C120	approximately 17 kilos/m <sup>2</sup>
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## 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<sup>+</sup>) 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	<p style="text-align: center;">Xi</p> <div style="text-align: center;">  </div> <p>IRRITANT!</p> <p>THE PRODUCT CONTAINS CEMENT!</p>
Special measures, warnings and observations for safe work	<p>R 36/38 Irritating to eyes and skin. R 41 Risk of serious damage to eyes.</p> <p>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.</p>

**9. Storage, Transport Conditions and Durability**

During transportation, protect the product against moistening. 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.

	
JUB d.o.o. Dol pri Ljubljani 28 SI – 1262 Dol pri Ljubljani <b>12</b> <b>SIST EN 1504-3</b> Coarse mortar for non-construction repairs of concrete, CC	
Compressive Strength	R2 class
Chloride Ion Content	≤ 0.05 %
Adhesive Bond	≥ 0.8 MPa
Carbonation Resistance	adequate
Elastic modulus	18.9 GPa
Restrained Shrinkage/ Expansion	≥ 0.8 MPa
Capillary Absorption	≤ 0.5 kg/m <sup>2</sup> h <sup>0.5</sup>
Reaction to Fire	NPD
Dangerous substances	Corresponds to the requirement 5.4

NPD: No Performance Determined (stated characteristic is not specified)

## 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 cannot 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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