

TECHNICAL SHEET 12.01.05-Eng

LEVELLING AND RENOVATION RENDERS, MORTARS FOR RENOVATION OF CONCRETE

**JUBOSAN C110**

Reinforcement anti-corrosion and bonding mortar

1. Description, Application

JUBOSAN C110 is an industrially prepared dry mortar compound based on hydraulic binders and processed with polymers and anti-corrosion additives. It is part of the JUBOSAN C system for the renovation of concrete where it is used as anti-corrosion protection of reinforcement, while also acting as an adhesive bond between the JUBOSAN C120 reprofiling mortar and an old concrete surface.

2. Packaging

Paper bags containing 20 kilos

3. Technical Data

Drying time T = +20 °C, relative air humidity = 65 % (hours)	~6 (touch dry)
Hardened compound density: (kilo/dm ³)	~1.9
Anti-corrosion characteristics	It fulfils the requirements of item 6.2 of the EN 15183:2006 standard.
Shear strength SIST EN 1504-7	Extraction force in the case of a move of 0.1 mm achieves at least 80 % of the force obtained in the testing of unprotected reinforcement.
Pull-off strength on concrete EN 1542:2000 (MPa)	> 2.5

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. Badly-adhered particles or remains of old coats should be removed by polishing, shot-blasting or washing with a high-pressure water jet.

Before applying JUBOSAN C110, thoroughly clean rust, fat and dust from the reinforcement so that it achieves the Sa 2 level of cleanliness.

Soak the surface with water before applying JUBOSAN C110 so that concrete does not absorb it capillarity anymore. Concrete should fully absorb water while water membrane or water drops should not be visible on the surface since this would prevent JUBOSAN C110 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 5 litres of water during

constant stirring. Stir the mortar in a suitable container with a manual electric mixer at low RPM, smaller amounts of the compound can also be stirred manually, but always be careful not to let air into the compound. After 2-3 minutes of stirring, let the mortar rest for 5 minutes so that it swells, and stir it again. If necessary, add a little water to obtain the compound of consistency that is suitable to be applied by a brush.

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

6. Render Finish Application

Apply two coats in thickness of 1 mm each of the mortar with a stiffer brush. Apply the first coat only onto the reinforcing steel, and apply the second coat evenly over the reinforcement and the concrete surface, in the same thickness, after 5-6 hours when the first coat has somewhat hardened.

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 (≥ 30 km/h) despite such protection.

In normal conditions (T = +20 °C, 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 1 mm thick application): JUBOSAN C110 ~ approximately 1.7kilo/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	<p style="text-align: center;">Xi</p> <div style="text-align: center;">  </div> <p style="text-align: center;">Irritant!</p> <p style="text-align: center;">The product contains cement!</p>

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.	


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 12 SIST EN 1504-7 Mortar for protection of reinforcement against corrosion	
Shear strength	adequate
Anti-corrosion protection	adequate
Dangerous substances	Corresponds to the requirement 5.3

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.

Designation and date of issue: **TRC-001/13-mar**, 18 January 2013



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