

TECHNICAL SHEET 15.01.02-EN



JUBOSAN C120

Coarse reprofiling mortar

1. Description, Application

JUBOSAN C120 is a dry, industrially manufactured, one-component mortar mixture. It is made of hydraulic binder material and enriched with polymers. It contains fibres which prevent shrinking and improve its physical properties. It is intended for the repair of constructional damages of concrete components. Because of its thixotropic characteristic, it is especially suitable for use on vertical surfaces.

COMPLIANCE:

JUBOSAN C120 complies with the requirements of the standard SIST EN 1504-3: Products and systems for the protection and repair of concrete structures – Structural and non-structural repair. It is a one-component polymer-modified cement mortar (PCC) for structural repairs, meeting the requirements for class R3.

2. Technical data

Packaging	25 kg
Hardened compound density	~1.95 kg/dm ³
Water dilution mass	~16 %
Average consumption	~2 kg/m ² /mm
Treatment time	~3 day
T=+20°C, relative air humidity=65%	
Compressive strength (EN 1504-3)	>45 MPa
Compressive strength class (EN 1504-3)	R4
Content of chloro-ions	<0.05
Content of chloro-ions class	R4

Capillary water absorption number (EN 1062-3)	>0.5 kg/m ² *h ^{0,5}
Capillary water absorption class (EN 1015-18)	R4
Elastic modulus (EN 13412)	≥15 MPa
Elastic modulus class	R3
Resistance to carbonation (EN 13295)	dk ≤ referential concrete (MC (0,45))
Resistance to carbonation class	R4/R3
Adhesion to concrete (EN 1542)	>2 MPa
Adhesion to concrete class	R4

3. Installation 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.

4. Surface Preparation

The concrete substrate must be dry, sound and solid as well as clean, free of mould oil, free of weakly bound particles, dust, and other impurities. Before the application of JUBOSAN C120, grout wash (resp. cement laitance) must be removed from the surfaces.

A good adhesion is achieved by an according roughness of the substrate, the more in average the better. Roughness below 0.4 mm is not suitable.

The substrate shall be moistened with water before the application of JUBOSAN C120 that much that the concrete is not absorbing it anymore. It has to completely soak the water, on the surface any water membrane or drops must not be visible. Any of these would rule out the adhesion of JUBOSAN C120 on the substrate.

5. Preparation of Mortar Compound for Application

It is prepared by adding the paper bag's content (25 kg) to about 4 litres of water with stirring. Perform stirring in a suitable container with an electric mixer (low RPM). Smaller amounts may be mixed manually. Anyway, no air shall be stirred into. After 2-3 minutes of stirring, let it swell up 5 minutes and stir again – add water only if necessary. The consistency shall be quite similar to a plastic modelling mass (e.g. like Plasticine).

Under normal conditions (T = +20 °C, rel. air humidity = 65 %), the mixture's pot life amounts to 45 minutes.

6. Application of Mortar Compound

The mortar is applied with a trowel in a way of rubbing it in (completely dry Jubosan C 110). The thickness of one coat may vary from 9 mm up to 45 mm. If the mortar is applied several times (i.e. coats), the previous coats must well adhere to each other and to the substrate. In order to enable good adhesion the surfaces shall be rough not levelled (see above in 4.). Follow also instructions regarding moistening of each dry substrate.

The newly applied mortar's resistance to precipitation is achieved after 24 hours under normal conditions (T = +20 °C, rel. air humidity = 65 %). Under strong, intense sunlight and strong wind, the mortar has to be protected from desiccation. The newly applied coat shall be well treated.

The dry application of JUBOSAN C120 shall be treated at least 3 days, in case of higher temperatures and lower humidity however 7-10 days. 'Treatment' means taking care of sufficient moisture of the cement product (JUBOSAN C120): moistening, covering the applied product with suitable felt and foil.

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 12 months.

8. Other Information

The technical instructions in this brochure are given based on JUB's experience and are given as a guideline for achieving optimum results. JUB cannot accept 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.

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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