

TECHNICAL SHEET 12.01.07- GBR
 RENOVATION RENDER FINISHES, MORTARS FOR RENOVATION OF CONCRETE

JUBOSAN NHL Fill 120

Coarse base render

1. Description, Application

JUBOSAN NHL Fill 120 is a dry ready-made product based on selected river aggregate, binders based on extremely clean natural hydraulic and air lime NHL 3.5 with accordingly low content of soluble salts, with special additives. It is biologically well degradable. The product is suitable for renovation of render finishes of interior and exterior wall and ceiling surfaces of facilities under the protection as cultural heritage, where the use of classic ecological materials is required.

2. Packaging

Paper bags containing 25 kilos

3. Technical Data

Density – Dry weight	1,450 kg/m ³ determined in free fall
Maximum grain diameter	2 mm
Open time	20 min
Mechanical flexural strength (after 28 days)	0.8 Nm/mm ²
Pressure mechanical strength after 28 days (category CS II)	2.0 N/mm ²
Plastic shrinkage	Not present in standard conditions
Resistance to water vapour diffusion μ	7
Adhesion to brick	0.5 N/mm ²
Water absorption	W0
Thermal conductivity λ (tab. value EN 1745) (W/mK)	0.36 W/mK, P = 50%
Fire resistance	class A1

Main ingredients: river aggregate, binders based on clean natural hydraulic and air lime NHL 3.5, special additives.



4. Surface Preparation

Precoats JUBOSAN NHL Base 110 or JUBOSAN NHL Base 111 form the substrate, which is moistened with water one day prior to the application of base render finish. In hot and windy weather, moistening can be repeated as necessary a few hours prior to the beginning of render finish application.

5. Preparation of Mortar Compound for Application

Mortar compound should be prepared in a concrete mixer by pouring the content of a bag (25 kilos) into approximately 5.5 l of water and by mixing it well in order to obtain a mortar of adequate consistency.

In normal conditions ($T = +20\text{ }^{\circ}\text{C}$, relative air humidity = 65 %), the prepared mortar compound should be applied within 20 minutes.

6. Application of Mortar Compound

Mortar is applied by a masonry trowel or by using a machine, usually in one coat of 1 to 2 cm of thickness. Surfaces with anomalies of over 2 cm must be prepared at least 48 hours in advance by filling them with the same product JUBOSAN NHL Fill 120; do not use excessive amount of water for mixing as that would decrease mechanical firmness. At application, first put in place edge battens, also with the same product; then measure out as much water in the mixer as necessary to obtain a compact mortar of plastic appearance; then you can continue with the application from the distance of 15-20 cm in order to obtain a thickness of approximately 1-2 cm for an individual coat. After a few minutes, level it with an aluminium levelling batten. When it hardens (after app. 8 hours), level it with a wooden or plastic smoothing trowel. The product applied in such a way can be finished with a fine mortar JUBOSAN NHL Finish 130 which must be applied in the next 24-48 hours according to external temperature and humidity

ATTENTION!

At joints of the wall with the ground, JUBOSAN NHL Fill 120 must be finished wedge-shaped !

The application of mortar compound is possible only in suitable weather or microclimate conditions: the temperature of the air and the wall surface should be between $+5^{\circ}\text{C}$ and $+30^{\circ}\text{C}$ 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 ($\geq 30\text{ km/h}$) despite such protection.

In normal conditions ($T = +20\text{ }^{\circ}\text{C}$, 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 cm thick coat): JUBOSAN NHL Fill 120 ~14 kg/m ² (depending on the substrate levelness)

Clean the tools with water immediately after use.

Keep unused, dry mortar compound in a well-sealed packaging for potential repairs.

7. Safety and Health at Work

Further instructions regarding handling the product, use of personal protection equipment, waste management, tool cleaning, first aid measures, warning signs, signal words, components determining hazard, hazard statements and safety statements are listed in the product's safety sheet which you can find on Jub's web page or you can require it from the manufacturer or seller. When applying the product, the instructions and regulations regarding safety for construction, façade and painting works should also be observed.

8. 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 12 months.

9. 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.

10. 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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JUB kemična industrija d.o.o.

Dol pri Ljubljani 28, 1262 Dol pri Ljubljani, Slovenia
T: (01) 588 41 00 h.c.
(01) 588 42 17 Sales
(01) 588 42 18 or 080 15 56 Technical support
F: (01) 588 42 50 Sales
E: jub.info@jub.si
www.jub.eu



The product is made by the holder of ISO 9001:2015, ISO 14001:2004 and OHSAS 18001:2015 certificates.

