NHL-FP

Lime fine coat finish plaster

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Fine plaster for wall and ceiling surfaces

Finishing Plaster Mortar CR CS I acc. EN 998-1

- heritage recipe

APPLICATIONS

- for producing smooth or skimmed wall and ceiling surfaces
- safe application when restoring historic monuments
- for interior and external use

PROPERTIES

- mineral
- can also be supplied dyed by agreement, by mixing in coloured sands and/or iron oxide pigments
- good workability
- vapour-permeable
- moisture regulating
- treated areas can be painted and wallpapered

COMPOSITION

- natural hydraulic lime NHL 5 according to DIN EN 459-1
- graded stone aggregates in accordance with DIN 13139
- selected fine marble powder

SUBSTRATE

Suitable substrates	■ Trass lime or lime cement base plasters ■ old load-bearing, cement-bonded plasters, unpainted ■ Concrete ■ Not suitable for subsurfaces containing gypsum
Properties/tests	■ The subsurface must be even, dry, clean, load-bearing, absorbent and free of adhesion impairing residues, efflorescence and sinter skins. ■ For assessing the plaster primer, VOB/C DIN 18350, Section 3, DIN EN 13914-1/13914-2 as well as the plaster standard DIN 18550-1/18550-2 should be observed. ■ The plaster primer must not be painted or coated in another form.
Pretreatment	■ Highly absorbent substrates are to be pre-treated.

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PROCESSING

Temperature	■ Do not process or allow to dry out at air, material or substrate temperatures below +5°C, or if there is a risk of exposure to night frost, or at temperatures above +30°C, or in direct sunlight, or on heated up surfaces, and/or in windy conditions.
Mixing / Preparation / Processing	■ When mixing manually, first place the quantity of water specified in the technical data in a clean container and then sprinkle in dry mortar. Use clean tap water. ■ use a suitable agitator to mix the material until smooth and free of lumps. Leave to rest for a moment and then mix again, adding more water, if required, to achieve the right consistency for applying. ■ Do not mix with other products and/or other substances.
Processing	■ Apply material with a trowel approx. 2 to 3 mm thick, dampen slightly after a rest time of approx. 5 to 10 minutes and felt off with the sponge float. ■ To produce smoothed surfaces, smooth off the applied mortar after felting.
Processing / Working time	■ Approx. 1 hour at +20 °C and 65 % relative humidity. ■ Mortar that has already started to harden must never be thinned down with additional water, remixed or applied.
Drying / Hardening	■ Protect the fresh mortar from drying out too quickly and from unfavourable weather conditions such as frost, draughts, direct sunlight and direct exposure to driving rain if necessary by hanging with foil.
Cleaning the tools	■ Clean all tools and equipment with water immediately after use.
Notes	■ All relevant implementing standards and regulations shall be taken into account.

PACKAGING

■ 30 kg/sack

STORAGE

■ Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

■ consumption: approx. 4.5 kg/m² per 3 mm plaster thickness
■ yield: app. 20 l fresh mortar per 30 kg/sack

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TECHNICAL DATA

Product type	Finishing Plaster Mortar CR
Category	CS I
Compressive strength	0.4 - 2.5 N/mm²
Grain	0 – 0,6 mm
Water requirement	approx. 6.0 l per 30 kg/sack
Set mortar bulk density	approx. 1.6 kg/dm³
Fire behaviour	A1 (non-flammable) in accordance with EN 13501
Adhesive tensile strength	≥ 0.08 N/mm²
Capillary water absorption	W_c1 (in accordance with EN 998-1)
Water vapour permeability μ	app. 5 - 7
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=50%	≤ 0.82 W/(mK)
Thermal conductivity $\lambda_{10,dry,mat.}$ for P=90%	≤ 0,89 W/(mK)

All data are average values that were determined under laboratory conditions according to relevant test standards and application tests. Deviations are possible under practical conditions.

SAFETY AND DISPOSAL INSTRUCTIONS

Safety

- This product produces an alkaline reaction when it comes into contact with moisture/water. Therefore ensure that skin and eyes are protected. If it should come into contact with the skin or eyes, rinse them thoroughly with water. See a doctor immediately if it comes into contact with the eyes.
- Follow further instructions in the safety data sheet.

Disposal

- Dispose of the material in accordance with the official regulations.
- Completely empty and recycle the packaging.
- Dispose of hardened product in accordance with the local regulations. Do not allow to enter the sewer system. Dispose of the hardened product in the same way as concrete waste and slurries. Waste code according to the Ordinance on the European Waste Catalogue depending on the origin: 17 01 01 (concrete) or 10 13 14 (concretewaste and concrete slurries).

GENERAL INFORMATION

This information sheet provides only general recommendations. Should you have any queries relating to a specific application, please contact our technical sales advisor or call our hotline: +49 541 601-601. Since natural raw materials are used, the values and properties described may vary somewhat. All of the details given are based on our current knowledge and experience and on the assumption that the materials are professionally applied and used for their normal purpose. All of the details are non-binding and do not release users from their duty to undertake their own tests to ensure suitability for the intended application. Due to the effects of different weather, processing and construction site conditions, no guarantee can be given for the general validity of all details. We reserve the right to make changes as a result of further development of the product and applications engineering. The general rules for construction engineering, the valid standards and guidelines, and the technical working guidelines must be observed. The publication of this technical data sheet renders all previous editions of this data sheet void. Please obtain the latest information from our website.

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