

FL-B

Formulated lime binder

Formulated lime binder based on FL B 3.5 in accordance with DIN EN 459-1

- cement-free
- with at least 25 % Rhenish trass
- with approx. 35% available lime ($\text{Ca}(\text{OH})_2$)



APPLICATIONS

- for producing site-mixed mortar
- for producing supple, easy to process and resistant and water vapour diffusible mortars, e.g. masonry, grouting and plastering mortar
- for indoor and outdoor applications

PROPERTIES

- with trass to reduce the risk of lime efflorescence and discolouration on natural stones as well as for an optimised hardening process
- can be used in delivered condition

PROCESSING

- | | |
|---------------------------|---|
| Temperature | <ul style="list-style-type: none">■ Do not process mortar made according to the following mixing ratios or allow it to dry in air, material and substrate temperatures of less than +5°C, and in case of expected night time frost or at temperatures of over +30°C, in direct sunlight, and/or in strong wind. |
| Drying / Hardening | <ul style="list-style-type: none">■ 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.■ Lime mortars harden slower to match the job and thus relieve tension. |
| Cleaning the tools | <ul style="list-style-type: none">■ Clean all tools and equipment with water immediately after use. |
| Notes | <ul style="list-style-type: none">■ Use only aggregates in accordance with DIN EN 13139, DIN EN 13055 or DIN EN 12620.■ The aggregates must not contain any colourants or harmful constituents. |

PACKAGING

- 25 kg/sack

STORAGE

- Store sacks appropriately and in dry conditions on pallets.

QUANTITY REQUIRED / YIELD

- A 25 kg sack produces a bulk volume of about 45 l and, depending on the purpose, is to be measured in volume parts, mixed and worked in according to the above mixing table.

TECHNICAL DATA

Product type	FL-B Formulated lime binder (CL60, P25, Q15) based on FL B 3.5 in accordance with DIN EN 459-1
Colour	old white
bulk density	approx. 0.55 kg/dm ³
Available lime as Ca(CO)₂	≥ 25 - < 50 % by weight
SO₃	≤ 2 % by weight
Compressive strength – 7 days	-
Compressive strength – 28 days	≥ 3,5 - ≤ 10 MPa
Grain size as residue to 0.2 mm	≤ 5 % by weight
Grain size as residue to 0.09 mm	≤ 15 % by weight
free water	≤ 2 % by weight
Solidification times – start	> 1 h
Solidification times – end	≤ 30 h
Room resistance (reference method)	≤ 2 mm
Room resistance (alternative method)	≤ 20 mm
Penetration measure	> 10 - < 50 mm
Air content	≤ 25 %

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	<ul style="list-style-type: none"> ■ 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	<ul style="list-style-type: none"> ■ 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).

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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.

