

UNILIT B-FLUID XB

grouting mortar for rebonding of plasters

OUTLINE SPECIFICATION

molding

PRODUCT DESCRIPTION

UNILIT B-FLUID XB is a traditional, dry premixed extremely fine mineral grouting mortar based on natural hydraulic lime as the binder and appropriate extremely fine well-graded aggregates.

UNILIT B-FLUID XB is characterised by a slow but strong bonding, a high plasticity, a low content of soluble salts and an excellent water vapour permeability. The natural hydraulic lime mortar is inherently stable and designed to reduce problems of micro cracks along with premature drying out.

The natural hydraulic lime binder, used to prepare the preblend, conforms to the European Standard EN 459-1 for building limes. The mortar **UNILIT B-FLUID XB** conforms to the European Standard UNI EN 998-1.

APPLICATION AREA

UNILIT B-FLUID XB is applied for the injection in between a detached mortar or fresco and their substrate in order to adhere the plaster or fresco once again to the background.

Thanks to its natural pore structure and low content of soluble salts, **UNILIT B-FLUID XB** regulates the moisture content within the masonry, eliminating practically all known problems related to frost, salt damage and lime bloom, providing that excessive damp and/or salt problems are not prevalent, and that the substrate is stable.

APPLICATION

A series of injection holes is spread over the injection area following a vertically staggered scheme. A maximum distance of 10 cm in between neighbouring injection holes needs to be maintained, while the injection holes are drilled as small as possible necessary for installing the injection equipment. After drilling, the injection holes are rinsed with demineralised or distilled water.

The mortar is mixed with clean water at a ratio of 7 to 8.5 litres of water to a bag of 25 kg ready mixed natural hydraulic lime powder. Mixing is undertaken with a slow speed electric paddle for a period of 5 to 8 minutes. A creamy workable mortar is obtained, which has approximately 2 hours of open time.

The injection grout is inserted through the injection holes with a syringe, with a maximum pressure of 1 to 2 bar. Anyhow, the exact working pressure is determined in function of the strength of the substrate and, where necessary, adapted during the injection process. The injection is recommended to proceed from the lowest point of the detached mortar upwards. The injection is stopped whenever the grout appears from any of the neighbouring openings. A drying period of 1 to 2 days must be respected.

The mortars must not be applied at temperatures below +5°C nor when a risk of frost exists. They should never be applied on to a frozen surface or in the case of thick fog. In hot, windy and dry conditions measures should be taken to prevent accelerated drying out of the freshly applied mortars. Applied mortars must be protected from frost and direct sunlight for 48 to 72 hours after their application.

REMARKS

In case of doubt regarding the substrate (e.g. treatment with an impregnating product such as silicones or comparable), consult our technical service department.

The maximum storage time is 6 months, if stored in the original, hermetically closed packing in a suitable environment. The material must be stored dry and frost free above ground. Protect the material from heat sources.

TECHNICAL DATA

Granular sizing	max. 0.01 mm
Fineness (residu < 90 µm)	< 1%
Bulk density	ca. 1200 kg/m ³
Compressive strength	
after 7 days	ca. 3.5 N/mm ²
after 28 days	ca. 9.0 N/mm ²
Flow (ASTM C-939 with 34% water content)	
after 0 minutes	23 s
after 60 minutes	26 s
Setting time	> 120 minutes
Soundness	< 1 mm
Available lime	4 - 5%
pH	
fresh mortar paste	> 10.5
hardened mortar	~ 7
Fire resistance classification (EN 13501)	A1
Proportion water/preblend	280 - 380 g/kg
Mixing time	5 to 8 minutes
Packing	powder in bags of 25 kg
Colour	beige

This sheet cancel and replace all previous sheets.
Our advice and information are given in good faith and depending on the latest developments of our products. We guarantee the consistent quality of our products, but do not accept any liability concerning their application. In any case, we do recommend to consider the type of substrate and the climatic conditions before applying our products or to apply a test surface in order to analyse the suitability of the product for the given substrate.