

UNILIT K/2

bonding mortar

OUTLINE SPECIFICATION

Limetics

PRODUCT DESCRIPTION

UNILIT K/2 is a traditional, dry premixed mineral bonding mortar based on natural hydraulic lime as the binder and appropriate well-graded aggregates.

UNILIT K/2 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 495-1, NHL 5 for building limes. The mortar UNILIT K/2 conforms to the European Standard UNI EN 998-1.

APPLICATION AREA

UNILIT K/2 is applied as an adhesive mortar for the LIMETICS external thermal insulation composite system with lime rendering. UNILIT K/2 can be applied as an adhesive for fixing the insulation boards on to a massive substrate (masonry, concrete, etc.). Depending upon the system specifications, UNILIT K/2 can either function as the mechanical bond of the insulation boards with the substrate, or either as an equalising layer when the insulation boards are fixed mechanically.

UNILIT K/2 can be applied on a wide variety of substrates (e.g. traditional brickwork and natural stone masonry, concrete, pre-existing renders, etc.), providing that the substrate is stable and not saturated with water and/or soluble salts.

APPLICATION

Prior to application, the substrate must be cleaned and freed of all traces of oil and grease. The substrate benefits from being slightly dampened. Saturation of the substrate is not recommended, as this will influence negatively impact upon the bond of the hydraulic lime mortar to the substrate.

When UNILIT K/2 is applied only to ensure the mechanical bond of the insulation boards to the substrate, the substrate should be sound and even. Surface deviations exceeding 8 mm over distances less than 1 m shall be leveled out prior to application.

The mortar is mixed with clean water at a ratio of 7 to 8 litres of water to a bag of 30 kg ready mixed natural hydraulic lime powder. Mixing is undertaken with a slow speed electric paddle for a period of 3 to 5 minutes. A creamy workable mortar is obtained, which has approximately 2 hours of open time.

When used as an adhesive to ensure the mechanical bond of the insulation boards to the substrate, the mortar is trowel-applied straight onto the insulation boards using a 8 mm indented spatula. The mortar is applied covering the whole surface of the insulation board.

When used as an equalising layer, the mortar is applied either manually or by mechanical means directly to the substrate at the required thickness and levelled with a float. A drying period of at least 1 week 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. 2 mm
Bulk density	ca. 1600 kg/m ³
Adhesive strength (EN 1015-12)	> 0.6 N/mm ²
Modulus of elasticity (UNI 6556)	ca. 5300 N/mm ²
Vapour diffusion resistance (μ)	12
pH	
fresh mortar paste	> 10.5
hardened mortar	~ 7
Fire resistance classification (EN 13501)	A1
Proportion water/preblend	0.25 l/kg
Mixing time	3 to 5 minutes
Consumption	4 - 5 kg/m ²
Maximum layer thickness	5 mm
Packing	powder in bags of 30 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.