

# UNILIT 35N - 35M (TD13 N/M)

## traditional base and bedding mortar

### OUTLINE SPECIFICATION

flooring  
plastering  
rendering  
roofing  
masonry and pointing

### PRODUCT DESCRIPTION

**UNILIT 35** is a traditional, dry premixed mineral base and bedding mortar based on natural hydraulic lime as the binder and appropriate well-graded aggregates.

**UNILIT 35** 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. The mortar **UNILIT 35** conforms to the European Standard UNI EN 998-1.

### APPLICATION AREA

**UNILIT 35** is a traditional natural hydraulic lime mortar, which has been applied for centuries in our cultural built heritage. **UNILIT 35** is, therefore, especially suited for all kinds of applications applying traditional building materials both in new construction, renovation as well as restoration. **UNILIT 35** can be applied as a base coat for both plastering and rendering, or as a bedding and/or pointing mortar in the case of traditional masonry constructions.

Thanks to its natural pore structure and low content of soluble salts, **UNILIT 35** regulates the moisture content within the masonry, eliminating practically all known problems related to humidity stains, frost, salt damage and lime bloom, providing that excessive damp and/or salt problems are not prevalent, and that the substrate is stable.

### 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 as well as the aesthetic appearance.

The mortar is mixed with clean water at a ratio of 5 to 6 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 4 minutes. A creamy workable mortar is obtained, which has approximately 2 hours of open time.

Depending on the application the mortar is applied either manually or by mechanical means at the required thickness. When used as a base coat and/or for (re)pointing at a nominal layer thickness or joint width of 8 to 10 mm, respectively, the finer **UNILIT 35M** is applied. Base coats and/or masonry joints with higher thicknesses or widths up to 15 to 20 mm, respectively, require the application of the coarser **UNILIT 35N**. 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.

The use of dehumidifiers and hot air blowers is prohibited during the drying process of the mortar.

### 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

<u>Granular sizing</u>	
UNILIT 35N	max. 4.0 mm
UNILIT 35M	max. 1.4 mm
Bulk density	1750 - 1850 kg/m <sup>3</sup>
<u>Compressive strength (EN 1015-11)</u>	
class CS III (3.5 N/mm <sup>2</sup> ≤ f <sub>c</sub> ≤ 7.5 N/mm <sup>2</sup> )	
<u>Adhesive strength (EN 1015-12)</u>	> 0.2 N/mm <sup>2</sup>
<u>Modulus of elasticity</u>	ca. 7000 - 8000 N/mm <sup>2</sup>
<u>Vapour diffusion resistance (μ)</u>	12
<u>pH</u>	
fresh mortar paste	> 10.5
hardened mortar	~ 7
<u>Fire resistance classification (EN 13501)</u>	A1
<u>Proportion water/preblend</u>	0.18 l/kg
<u>Mixing time</u>	3 to 4 minutes
<u>Consumption</u>	15 - 18 kg/m <sup>2</sup> /cm
<u>Maximum layer thickness</u>	
UNILIT 35N	20 mm
UNILIT 35M	10 mm
<u>Packing</u>	powder in bags of 30 kg
<u>Colour</u>	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.