

# Teknorep 500

## Natural Hydraulic Lime



### Product Description

It is a special mortar prepared for historical buildings without cement. It is a plaster, mortar that provides breathability and has a high water vapor permeability.

### Areas of Usage

- Stone and brick wall weaving,
- Restoration or strengthening of historic masonry structures,
- Repair works for cracks of domes and vaults,
- It is used in stone, brick and wall knitted works of existing historical structures.
- It is used as a binder in the preparation of Khorasan mortar for grouting production.

### Features and Benefits

- Easy to implement.
- Cement-free.
- High bond strength.
- Breathable, high water vapor permeability.
- It allows the production of mortar in different properties compatible with historical texture.
- It is cooked with conventional methods at low temperatures.

### Application Instructions

Surface Quality: Surfaces should be clean, smooth, free from all kinds of dust, oil, dirt, rust, mould oil, detergents, etc. Weak Parts on the surface should be removed.

Surface Preparation: It should be noted that the surfaces to be repaired and plastered in historic masonry structures should be solid, dust-free and clean. All kinds of oils, rust, etc. that weaken the surface, adherence, it should be cleaned thoroughly. Application of the surface of the wall should be dampened in advance to improve the adhesion and the time of the mortar. If there is a flow of water on the surface, it should be closed with the help of an appropriate Plug and the water should be drained.

Mixing: the required amount of water is put in a clean mixing bucket with the help of scale and the TEKNOREP 500 is added slowly and mixed with a 400-500 cycle mixer for about 4 minutes.

### Application Notes / Restrictions

- In outdoor applications, the sun should be protected from rain and frost for the first 3 hours.
- Reaction times are affected by ambient and ground temperatures. The reaction times are shortened in the hot place and the cold place is prolonged.
- Warm water should be used in cold places.
- Iced mixture water should be used in hot places.
- During the application of the product, work clothes must be worn and appropriate glasses and masks must be worn in accordance with the occupational health and safety regulations.
- After application, it should be protected against adverse weather conditions such as direct sunlight, severe wind, high air temperature (above 35°C), rain and frost. The product should be cleaned with water and detergent before it gets cured.
- Immediately after application, equipment should be cleaned with water before curing. After the product has hardened, it should be cleaned by mechanical methods.
- Prepared mortar is easily applied with a trowel. For more than one coat application, it should be done after the previous hardener. Precautions should be taken against rapid drying in open area and wide surface applications.

### Technical Data

General Information	
Material Structure	Natural Hydraulic Lime
Appearance	Light Grey and Off-White
Shelf Life	12 months in dry environment in unopened packaging.
Package	25 kg Kraft bag
Application Information	
Application Temperature	(+5°C) - (+35°C)
Deflexion Strength	> 1,0 N/mm <sup>2</sup>
Compressive Strength	> 3,70 N/mm <sup>2</sup>
Class (EN 459-1)	NHL 3,5
Mix Proportion	Khorasan mortar is variable according to its formula.
Outlay	Khorasan mortar is variable according to its formula.
Mortar Density (g/cm <sup>3</sup> )	1,65 ±0,1

