

Teknorep 550

Natural Hydraulic Lime



TS EN 459-1 NHL 3,5

Product Description

The product is a special, cement-free material prepared for historical buildings. It is a hydraulic lime that is produced for using in the production of Khorasan mortar.

Areas of Usage

- It is used for restoration or strengthening of historical masonry structures,
- Repairing of dome and vault cracks,
- Stone, brick and wall laying of current historical structures,
- Plastering of structures which need high water vapor permeability,
- Restorations and jointing, grouting and repairing of green buildings
- It is used as a binder in the preparation of Khorasan mortar for grouting production.

Features and Benefits

- It is compatible with the historical structures
- It enables the production of mortar with various properties
- It has high water vapor permeability
- It has high strength
- It is a cement-free material

Application Instructions

The materials that are given in the mortar analysis are measured in necessary amounts and mixed. The certain amount of water that is given in Khorasan mortar formula is added to the mixture and it is mixed again until a homogeneous material is obtained.

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 materials such as oil, rust, grease, that weaken the surface adherence should be cleaned thoroughly. Application surface of the wall should be moistened in advance to improve the adhesion and the setting time. If there is a water leakage on the surface, it should be stopped with the help of an appropriate stopper and the water should be drained. There should not remain any free water that prevents adhesion on the surface. The mortar is waited to drain its water when it is applied, and water is sprinkled on the drained surface with a plaster brush and then the surface is finished as desired with the help of a steel or wood trowel. For multiple layer applications, the application should be done after the hardening of the former layer complete. For broad surface and outdoor applications, the necessary precautions should be taken against rapid drying. The rapid water loss should be tolerated by wet sack or water during 1-2 days.

Application Notes / Restrictions

- The temperature of surrounding and the surface should not be below the minimum temperature for the product to complete its setting.
- In outdoor applications, the surface should be protected from sunlight, wind, rain and frost during 24-48 hours after the application.

Technical Data

General Information	
Appearance	Natural white
Shelf Life	12 months
Package	16 kg kraft bag
Application Information	
Mixing Ratio	Changeable depending on Khorasan mortar formula
Application Temperature	(+5°C) - (+35 °C)
Consumption	Changeable depending on Khorasan mortar formula
Performance Information	
Flexural Strength	Min. 1,0 Mpa
Pressure Resistance	Min. 4 ,0 Mpa
Hazardous Material	Read the safety data sheet
Reaction to Fire	A1 class

Technical datas are based on the laboratory studies at Tekno Construction Chemicals and are approximate values of finished products obtained at +20 °C air temperature and 50% relative humidity.

