TEKNO®
construction chemicals

Teknorep 510

Natural Hydraulic Lime Based Plaster.

TS EN 998-2

Product Description

It is a cement-free, natural hydraulic lime based plaster material used for obtaining a smooth surface in historical masonry buildings.

Areas of Usage

- Restoration of historic masonry buildings.
- Exterior plater,
- Plaster and surface repair,
- Surface leveling on the surfaces of Khorasan plaster,
- Repair of natural Stones, brick and wall joints,

Features and Benefits

- The restoration of historic buildings is also one of the best products since it does not contain soluble salts.
- Cement- free.
- Flowering resistance is high.
- Easy to prepare and apply.
- Provides good adhesion on plaster.
- Breathable, high water vapor permeability.

Application Instructions

Surface Quality: The surfaces to be repaired of historic buildings should be clean, smooth, sound, free form all kinds of dust, oil, dirt, rust, mold, oil, detergents, etc. Weak parts on the surface should be removed.
Surface Preparation: absorbent surfaces should be wetted in advance, but bı accumulation of water should be left.
Before applying TEKNOREP 510 plaster mortar, it is recommended to mositen the surfaces. Prepared TEKNOREP 510 plaster mortar is applied with the help of a trowel. It should be protected from rain, sun and frost for 36 hours after application. The required amount of water (4 to 6 water for 1 bag of powder) is put into a clean mixing bucket with the help of a scale and the TEKNOREP 510 plaster is added slowly and mixed with a 400-500 speed mixer for about 4 min. After resting for about 4 min. and mixing again for 30 sec. the material becomes ready for use.
Prepared mortar thickness is 2-3 mm between the trowel is applied. The mortar is expected to draw the water and sprinkle the water on the mortar with the plaster brush and finish the surface with steel or wood trowel as desired. To obtain a much smoother surface, it is necessary to apply twice as much. One day should be waited between layers. Before applying the new layer, the previous layer should be dampened.

Application Notes / Restrictions

- In outdoor applications.
- 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 environments.
- Iced mixture water should be used in hot environments.
- 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.

Application Notes / Restrictions

- 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.

Technical Data

General Information	
Material Structure	A special blend of natural hydraulic lime based
Appearance	Off-white
Shelf Life	12 months in dry environment in unopened packaging.
Package	20 kg kraft bag
Application Information	
Implementation Process	Min. 30 minutes
Application Ground Temperature	(+5°C) - (+35°C)
Average Grain Size	0-0,6 mm
Performance Information	
Deflexion Strength	> 2,0 N/mm²
Compressive Strength (EN 1015-11)	> 11 N/mm²
Water Vapor Permeability (EN 1745)	μ < 15
Capillary Water Absorption (EN 1015-18)	0,2 kg m^{-2} $dk^{-0,5}$
Bond Strength	> 0,15 N/mm²
Reaction to Fire	A1

Consumption Table

Teknorep 510	Mixture Density (kg/litre)	1 mm/1 m² Powder Consumption (kg)	Amount of Mixture Water (litre)
20 kg kraft bag	1,70 – 1,90	1,4	5-7,5

Technical ınformations are approximately the values obtained in Techno Structural Chemical Laboratory study of finished products obtained in the +20C Air Temperature and 50% relative humidity.