

BR-901 / HORASAN HYDRAULIC PLASTER

PRODUCT DESCRIPTION

It is a cement-free, natural hydraulic lime-based plaster material used to achieve a smooth surface in historic masonry buildings.

USAGE AREAS

In the restoration of historic masonry buildings,
For exterior plastering,
For plaster and surface repairs,
For surface leveling on Horasan plaster surfaces,
For repairs of natural stones, bricks, and wall joints,
Used to fill surface gaps of 1.5 cm.

FEATURES

It is one of the best products for the restoration of historic buildings as it does not contain soluble salts.
It is free of cement.
It has high resistance against efflorescence.
Easy to prepare and apply.
Provides good adhesion on the plaster surface.
Breathable, with high water vapor permeability.

TECHNICAL SPECIFICATIONS:

(23 ± 2°C and 50±5% relative humidity)

APPLICATION INFORMATION:

Surface temperature during application: (+5°C) - (+30°C)
Temperature resistance: (-30°C) - (+70°C)
Appearance: White
Application time: Min. 30 minutes
Water vapor permeability: $\mu < 15$
Reaction to fire: A1
Compressive strength: >11 N/mm²
Flexural strength: >2 N/mm²
Bond strength: >0.15 N/mm²

REFERENCE STANDARDS

Approvals/Standards
TS EN 459-1NHL 3.5

APPLICATION INSTRUCTIONS

Surface Quality: The surfaces of historic buildings to be repaired must be clean, smooth, solid, free from any dust, oil, dirt, rust, mold release agent, detergents, or similar substances that prevent adhesion. Weak parts on the surface should be removed.

SURFACE PREPARATION:

Absorbent surfaces should be pre-wetted, but no pooling of water should remain. It is recommended to moisten the surfaces before applying BR-901 Hydraulic Plaster. The prepared BR-901 Hydraulic Plaster is applied with the help of a trowel. After application, it should be protected from rain, sunlight, and freezing for 36 hours. The required amount of water (5-7.5 liters of water per bag) is put into a clean mixing bucket using a scale, and then BR-901 Hydraulic Plaster is gradually added and mixed for about 4 minutes with a mixer running at 400-500 revolutions per minute. After approximately 4 minutes of rest, it is mixed for another 30 seconds, and the material is ready for use. The prepared mixture is applied with a trowel to a thickness of 2-3 mm. The plaster is allowed to absorb water and then, with the help of a plasterer's brush, water is sprinkled on the set plaster and the surface is finished with a steel or wooden trowel as desired. To achieve a smoother surface, it is necessary to apply two coats. One day should be waited between coats. The previous coat should be moistened before applying a new layer.

PACKAGING

20 kg moisture-resistant kraft bag.

Shelf life in unopened packaging in a dry environment is 12 months.

CONSUMPTION

20 kg kraft bag = 5.5-7.5 liters of water.

STORAGE

It should be stored in its original unopened packaging in a dry environment (maximum 60% relative humidity) and at a cool temperature (+5°C to +25°C). It should not be exposed to direct sunlight. It should be stacked a maximum of 10 layers in a dry environment.

SAFETY RECOMMENDATIONS

For outdoor applications, protect it from sun, rain, and freezing for the first 3 hours.

Reaction times are influenced by ambient and surface temperatures. Reaction times shorten in hot environments and lengthen in cold

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