

**Repair, Reinforcement and Restoration / Hydraulic Lime Based Repair and Restoration Mortars****RENOVAFIX<sup>®</sup> HK**

Natural Hydraulic Lime (NHL 3.5)

**DESCRIPTION**

**Natural hydraulic lime** for **renovation of masonry buildings**, repairing plaster and as a binding in historical building repairing mortars like special Horasan mortar.

**APPLICATION AREAS**

- Indoor and outdoor
- Restoration of historical buildings
- Repairing plaster and wall joints
- Repair mortars
- Repairing the cracks of masonry buildings, arches, domes and vaults
- Stone, brick, and masonry works of historical buildings
- Preparing special Horasan plaster.

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Off white colored powder
<b>Powder Density</b>	~ 0.60 ± 0.1 kg/L
<b>Water Mixing Ratio</b>	Varies depending on the fillers and other additives
<b>Application Temperature</b>	Between +5°C and +35°C
<b>Compressive Strength</b>	≥ 3.5 N/mm <sup>2</sup> (EN 1015-11)

**ADVANTAGES**

- Does not contain cement
- Water vapor permeable, allows the surface to breathe.
- Has 3.5 N/mm<sup>2</sup> compressive strength.
- Easy to prepare and apply.
- Compatible with historical buildings.
- Suitable to use in restoration where optimum pressure is required.
- Can be used both in plasters and in repair mortars.
- The most appropriate natural hydraulic lime for restoration of historical buildings.

**CONSUMPTION**

Varies depending on the application.

**PACKAGING**

20 kg kraft bags

**APPLICATION****PREPARATION OF THE SURFACE**

- The surface of historic masonry buildings to be repaired must be intact.
- The surface must be clear of materials which prevent bonding, such as dust, oil, paint, curing agents, detergents and mold release oils.
- Close the active water leaks on the surface with a suitable plug and drain the water leak.
- Moisten the wall surface in advance to improve the adhesion and curing time of the mortar.

**PREPARATION OF THE MORTAR**

- Add 20 kg RENOVAFIX HK Natural Hydraulic Lime (NHL 3.5), a quality plaster or wall repair mortar sand and other necessary fillers into clean water, and mix preferably with a low speed mixer until there are no lumps. Adjust the amount of water for mortar consistency.
- Mix the prepared mortar very well and pay attention to water ratios.
- Use the mixture in the container within approximately 1 - 2 hours depending on the air temperature and ambient conditions.

**APPLICATION**

- Apply the mortar with a trowel, to the entire surface at the same thickness.
- Wait at least 24 hours between coats and moisten the previous coat before applying the second coat.
- If the mortar is applied in hot, dry and windy environments, protect it against rapid evaporation for 24 - 48 hours by moistening with wet sacks or water.

**CAUTION**

- Avoid application at temperatures below +5°C and above +35°C.
- Do not add anhydride binders such as gypsum into the material. RENOVAFIX HK should not be used with this type of binder materials.
- Pay attention to the amount of water added to the mortar and its cleanliness. Do not add more water than necessary. Excess water will cause cracking and easy abrasion. The amount of water used will directly affect the strength of the mortar.
- Make sure that the plaster or repair mortar sand used is of suitable quality and provides the appropriate granulation distribution in the mortar. This will directly affect the quality of the mortar.
- Avoid application in areas that are frozen, at risk of freezing within 24 hours, or in areas open to direct sun and wind. If snowfall or severe cold is expected within approximately 1 week after application, do not apply or take protective measures.
- For the mortar to cure, make sure that the ambient and surface temperature does not fall below the specified minimum temperature.
- Do not add water and powder to the expired mortar.

**PACKAGING**

20 kg kraft bags

**SHELF LIFE**

Expires in 12 months. Store unopened packages in non-humid environments. Stack up to 10 packages on the pallet.

**HEALTH AND SAFETY**

As with all chemical products, contact with food, skin, eyes and mouth should be avoided during usage and storing. During the application, work wears, protective gloves and goggles should be used according to the work place health regulations. If swallowed by accident, consult a doctor. Rinse with water in case of contact with skin. Keep out of reach of children.

The application instructions and technical values given for the products have been obtained in accordance with our tests and experiences in accordance with international standards at 23±2°C temperature and 50±5% relative humidity conditions. These values may vary depending on ambient conditions. High temperatures shorten the times, low temperatures lengthen them. Before starting the application, the user should test whether the product is suitable for the application and purpose. FIXA Yapı Chemicals San. Trade Ltd. Sti. is not responsible. This Technical Data Sheet remains valid until the next revision is published. FIXA reserves the right to change the values specified in this Technical Data Sheet, provided that the new version is published. It is the user's responsibility to check that the document is up-to-date. Please contact our sales department for more information.