

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

Natural Hydraulic Lime Based Ready-Mixed Plaster

**DESCRIPTION**

**Natural hydraulic lime** based, single component, **cement-free**, fiber supported, special restoration plaster mortar for historical masonry buildings.

**APPLICATION AREAS**

- Indoor and outdoor
- Smoothing plaster surfaces of historical buildings,
- Plastering the walls for restoration,
- Repairing the plastered surfaces and joints of natural stones and brick walls.

**TECHNICAL PROPERTIES**

<b>Appearance</b>	Light beige colored powder
<b>Powder Density</b>	1.00 ± 0.1 kg/L
<b>Water Mixing Ratio</b>	4.8 – 5.2 L water / 20 kg powder
<b>Resting Period</b>	~ 5 minutes
<b>Pot Life</b>	~ 30 minutes
<b>Application Temperature</b>	Between +5°C and +35°C
<b>Compressive Strength</b>	CS III (EN 1015-11)
<b>Capillary Water Absorption</b>	W <sub>0</sub> (EN 1015-18)
<b>Application Thickness</b>	2 – 20 mm
<b>Complete Curing Time</b>	7 days

**ADVANTAGES**

- Does not contain cement
- Easy to prepare and apply
- Adheres strongly on plastered surfaces
- Water vapor permeable, allows the surface to breathe.
- Has low capillary water absorption
- Does not crack since it contains fibers
- Resistant to efflorescence
- Environment friendly, does not contain asbestos,
- The most appropriate product for restoration of historical buildings since the water soluble salts in its content is limited.

**CONSUMPTION**1.6 -1.8 kg/m<sup>2</sup> (for 1 mm thickness)**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.
- Use **RENOVAFIX PL Pozzolanic Lime Based Historical Building Repair Mortar** to repair the cracks and holes on the surface.

### PREPARATION OF THE MORTAR

- Add 20 kg RENOVAFIX NL Natural Hydraulic Lime Based Ready-Mixed Plaster into 4.8 – 5.2 L clean water, and mix preferably with a low speed mixer until there are no lumps.
- Leave the mortar to rest for about 5 minutes to mature and stir again for 1 - 2 minutes.
- Use the mixture in the container within approximately 30 minutes.

### APPLICATION

- Apply the mortar with a trowel, to the entire surface at the same thickness, 2 – 20 mm thickness in each layer.
- After application, level the surface with a gauge.
- Correct the plaster with a trowel before it hardens.
- 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 any other material such as lime, cement, sand or gypsum into the material.
- Pay attention to the amount of water added to the mortar. Do not add more water than necessary. Excess water will cause cracking and easy abrasion.
- 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 material 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.



## Technical Data Sheet (TDS)

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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  $23\pm 2^{\circ}\text{C}$  temperature and  $50\pm 5\%$  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.