

**Repair, Reinforcement and Restoration /
Hydraulic Lime Based Repair and Restoration Mortars****RENOVAFIX® PL****Pozzolanic Lime-Based Historical Building Repair Mortar****DESCRIPTION**

Pozzolanic lime-based, single-component, fibre-reinforced, **cement-free**, high-strength thixotropic restoration mortar specifically developed for the repair and restoration of historic buildings.

APPLICATION AREAS

- Indoor and outdoor,
- Repair and strengthening of historic masonry structures,
- Repair works for strengthening stone, brick, or mixed masonry walls,
- Installation of carbon rods in masonry joints,
- Floor repairs and filling of large voids when mixed with suitable aggregates,
- Repair, restoration, or reconstruction of masonry walls, arches, domes, and vaults,
- Repair and strengthening of masonry foundations.

TECHNICAL PROPERTIES

Appearance	Light beige colored powder
Powder Density	1.05 ± 0.05 kg/L
Fresh Mortar Density	2.05 ± 0.05 kg/L
Hardened Mortar Density	1.80 ± 0.05 kg/L
Water Mixing Ratio	3.6 – 4.0 L water / 20 kg powder
Resting Period	~ 5 minutes
Pot Life	~ 30 minutes
Application Temperature	Between +5°C and +35°C
Flexural Strength	> 2 N/ mm ² (EN 1015-11)
Compressive Strength	> 15 N/ mm ² (EN 1015-11) M15 class
Application Thickness	10 - 50 mm
Full Curing Time	28 days

ADVANTAGES

- Cement-free.
- Easy to prepare and apply.
- Has high mechanical strength.
- Offers excellent adhesion strength.
- Vapour permeable, allows the substrate to breathe.
- Has low capillary water absorption.
- Fibre-reinforced to minimize cracking.
- High resistance to efflorescence.
- Environmentally friendly.
- An ideal solution for the repair and restoration of historic buildings, as the content of water-soluble salts is strictly limited.

CONSUMPTION16 -18 kg/m² (1 cm thickness)

APPLICATION

PREPARATION OF THE SURFACE

- Ensure that the surfaces of historic masonry structures are structurally sound and thoroughly cleaned of all loose particles and weak sections prior to application.”
- The surface must be clear of materials which prevent bonding, such as dust, oil, paint, curing agents, detergents and mold release oils.
- Seal the active water leak 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 PL Pozzolanic Lime-Based Historical Building Repair Mortar in 3.6 – 4.0 L clean water and mix preferably for 3 – 4 minutes with a low speed mixer until there are no lumps.
- Let the mortar with thick consistency in the pot rest to mature for 5 minutes and mix again 1 – 2 minutes before use.
- Use the material within 30 minutes.

APPLICATION

- Apply the mortar with a trowel to the entire surface at the same thickness, 1 – 5 cm thickness in each layer. When the mortar starts to set, the surface can be refined by lightly sprinkling water onto the mortar and finishing it with a trowel.
- Wait for the previous layer to harden before applying the next layer 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.
- Where thick applications are required, such as in concrete or screed repairs, washed aggregate with a grading of 5–20 mm may be added into the mortar at 30–35% by weight.

CAUTION

- Avoid application at temperatures below +5°C and above +35°C.
- Do not add any external materials, including lime, cement, gypsum, or other additives, to the product
- Pay attention to the amount of water added to the mortar. Do not add more water than necessary
- 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.





Technical Data Sheet (TDS)

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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 $23\pm 2^{\circ}\text{C}$ 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 Construction Chemicals Ltd. 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.

