

TECHNICAL DATA SHEET

4200000 | PLM A-injection mortar

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PLM - A

INJECTION MORTAR FOR THE CONSOLIDATION OF FRESCO SURFACES

DESCRIPTION

PLM-A injection mortar enables to make consolidation interventions on **Frescoes and Mural Paintings**, in general.

PLM-A injection mortar is a compound based only on Natural Limes, free from efflorescing salts, combined with selected inert materials and specific additives that modify the rheological properties.

The particular formulation makes PLM-A injection mortar a unique product for the preparation of aqueous suspensions that will have high penetrability and stability to sedimentation.

Studies carried out in collaboration with the **Department of Materials Engineering of the University of Trento - Italy (*)** have verified that **PLM-A** injection mortar meets the technical requisites demanded by the Institutions in charge of the protection and conservation of the monumental heritage.

It has been verified that PLM-A injection mortar has the following properties:

- absence of efflorescing soluble salts;
- it is not waterproofing nor water-repellent;
- no change in the masonry vapour permeability;
- physical and mechanical characteristics like those of the treated materials;
- if possible it does not require the pre-moistening of the support;
- injection easiness with syringes and fine needles;
- it contains no aggressive or corrosive agent for colours;
- easiness of cleaning and removal in case of leakages.

APPLICATIONS

Because of its particular properties PLM-A injection mortar is suitable for the consolidation of **Frescoes** and **Wall paintings** generally detached from the mural substrate, to which you would like to give clinginess characteristics.

TECHNICAL DATA:

Appearance: white-greyish powder

Setting time – beginning (*): 24 - 48 hours

Density (*): 1.1 g/cm³

Compressive strength (*): 12.7 kg/cm²

INSTRUCTIONS FOR USE

Add water to PLM-A injection mortar up to a percentage of 80% in weight depending on the desired fluidity.

Mix carefully at a low speed for about 5 minutes till you obtain a homogeneous and liquid mixture.

Filter by means of metal nets with meshes side of about 1 mm.

Inject with manual syringes.

For an optimal application, after having made the holes, inject the grout in a continuous way in order to avoid occlusions.

If in yard there are prolonged pauses, the mortar has to be remixed.

YIELD

Variable according to the state of decay of the work.

CAUTION

- In order to verify its characteristics, its consolidant effect and the quantity of material to use, it's suggested to carry out preliminary tests in yard.
- Remove the excess of material with sponges soaked in water.
- Use gloves and protective goggles.

PACKAGING

PLM-A injection mortar is available in 1 - 5 - 15 kg drums.

STORAGE

Twelve months in the original containers tightly closed, out of moisture.

SPECIFICATIONS

Consolidation of **Frescoes** and **Wall paintings**, detached from the mural substrate, through manual injections of natural hydraulic binders having low saline contents and suitably combined with additives, such as the **PLM-A**, in order to cling the **Frescoes** and **Wall paintings** to the original support.