

TECHNICAL DATA SHEET

4200100 | PLM AL-low density injection mortar

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PLM - AL

A LOW SPECIFIC GRAVITY INJECTION MORTAR FOR THE CONSOLIDATION OF FRESCOES AND VAULT PLASTERS

DESCRIPTION

The low specific gravity **PLM-AL** injection mortar enables to make consolidation interventions on valuable **Frescoes and Plasters** placed in vaulted structures.

The low specific gravity PLM-AL injection mortar is a compound based on Natural Limes and hydraulic binders, free from efflorescing salts, combined with high specific surface inert materials and suitable additives that modify the rheological properties.

Studies carried out in collaboration with the **Department of Materials Engineering of the University of Trento - Italy (*)**, have verified that the **PLM-AL** 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 the low specific gravity **PLM-AL** 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 agents for colours;
- easiness of cleaning and removal in case of leakages.

APPLICATIONS

Because of its particular properties the low specific gravity **PLM-AL** injection mortar is suitable for the consolidation of valuable **Frescoes and Plasters**, generally detached from the mural substrate, to which it gives new clinginess characteristics without increasing the weight of the supporting structure.

TECHNICAL DATA

Appearance: white-greyish powder

Setting time ():* 21 - 52 hours

Density ():* 0.6 kg/dm³

Compressive strength ():* 9.2 kg/cm²

INSTRUCTIONS FOR USE

Add water to the **PLM-AL** injection mortar up to a percentage of 140% 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 through metal nets with meshes side of about 1 mm.

Inject with manual syringes.

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

If in yard there are prolonged pauses, the compound has to be mixed again.

YIELD

Variable according to the state of deterioration of the surfaces.

CAUTION

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

PACKAGING

The **PLM-AL** injection mortar is available in 1 - 5 - 10 Kg drums.

STORAGE

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

SPECIFICATIONS

Consolidation of valuable Frescoes and Plasters, detached from the mural substrate and placed in vaulted structures, through manual injections of low specific gravity mortar, such as **PLM-AL** for the clinginess to the original support without increasing the weight of the supporting structure.