

TECHNICAL DATA SHEET

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PLM - I

INJECTION MORTAR FOR CONSOLIDATING PLASTERS

DESCRIPTION

PLM-I injection mortar makes it possible to consolidate valuable **plasters**.

PLM-I injection mortar is a compound based on hydraulic binders and selected aggregates, suitably additivated to avoid shrinkage phenomena and facilitate workability. Studies carried out in collaboration with the **Department of Materials Engineering of the University of Trento - Italy**, have verified the compliance of **PLM-I** grout with the technical requirements of the **Institutes** in charge of the protection and conservation of monumental heritage.

It was verified that **PLM-I** injection mortar has the following characteristics:

- absence of efflorescible soluble salts;
- not being waterproof or water-repellent;
- not altering the vapour permeability of masonry;
- have physical and mechanical characteristics similar to those of the materials to which it is applied;
- not require, if possible, pre-wetting of the substrate;
- easiness of injection with syringes and fine needles;
- easiness of cleaning and removal in case of leakings.

APPLICATIONS

Due to its special properties, **PLM-I** injection mortar is indicated for the consolidation of valuable plasters, detached from the wall support, to which new adhesion characteristics are to be conferred.

TECHNICAL DATA

- Appearance: white-greyish powder
- Setting time – beginning (*): 24-48 h
- Density (*) gr/cm³: 1,2
- Compressive strength (*) Kg/cm² : 25,9

INSTRUCTIONS FOR USE

Add water to the **PLM-I** injection mortar to a proportion of approx. 70 % by 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 depending on the state of deterioration of the **plaster**.

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-I 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 **particularly valuable plaster** that is detaching from the wall support by means of manual injections of natural hydraulic binders having a low salt content, suitably additivated to reattach the **plaster** to the original support.