

TECHNICAL DATA SHEET

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PLM - SM

INJECTION MORTAR FOR THE CONSOLIDATION OF MOSAICS

DESCRIPTION

PLM-SM injection mortar enables consolidation work to be carried out on preparatory layers of mosaics detached from the wall substrate.

PLM-SM injection mortar is a compound based on hydraulic binders, free of efflorescible salts mixed with selected aggregates and specific additives modifying rheological properties.

Studies carried out in collaboration with the **Department of Materials Engineering of the University of Trento - Italy** have verified the compliance **PLM-SM** grouting binder to the technical requirements of the **Institutes** in charge of the protection and conservation of the monumental heritage.

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

- absence of efflorescible soluble salts;
- not be waterproof or water-repellent;
- not alter the vapour permeability of masonry;
- have physical and mechanical characteristics similar to those of the materials on which it is applied;
- not require pre-wetting of the substrate if possible;
- easy injection with syringes and fine needles;
- contain no aggressive or corrosive agents for colours;
- easy cleaning and removal of leaking spills.

APPLICATIONS

Because of its special properties **PLM-SM** grout is suitable for the consolidation of preparatory layers of **mosaics** detached from the masonry substrate, to which new adhesion characteristics are to be given.

TECHNICAL DATA

- Compressive strength Kg/cm²: 30,5
- Appearance: white-greyish powder
- Setting time – beginning: 24-48 h
- Density gr/cm³: 1,3

INSTRUCTIONS FOR USE

Add water to the PLM-SM grout to a proportion of approx. 80 % by weight depending on the desired fluidity.

Mix carefully and at low speed for approx. five minutes until a homogenous, fluid mixture is obtained. Filter through metal screens with a mesh size of approx. 1 mm.

Inject using hand syringes.

For optimal application, after drilling, inject the grout continuously to avoid occlusions.

In the event of prolonged pauses on the construction site, the compound must be remixed.

YIELD

Variable depending on the state of surface alteration.

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-SM injection mortar is available in 1 - 5 - 20 Kg drums.

STORAGE

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

SPECIFICATIONS

Consolidation of Mosaics in the process of detachment from the wall support by means of manual injections of natural hydraulic binders with a low saline content, suitably additivated for reattachment to the original support.