



Fine-grained mortar on the basis of Roman Cement

Data sheet

Product: Universal, industrially prepared, dry mortar for the renovation of historical buildings' elevations.

Ingredients: Roman cement, quartzitic filler, additives.

Use: Mortar destined for finishing elevation's surface and for filling small cracks and damages.

Technical information:

Granulation: 0-0,5 mm

Bulk density of fresh mortar: 1,7 kg/m³

Bulk density of hard-set mortar: 1,5 kg/m³

Air content in fresh mortar: about 13 %

Lifetime of working features: about 35 min

Bending strength after 28 days: 1,7 N/mm²

Compression strength after 28 days: 5,6 N/mm²

Ground adhesion: 0,45 N/mm²

Pulling up capillary waters: W1

Water steam permeability factor, μ : 8,0

pH value: ok. 11

Fire reaction: A1

Working features:

Proportion of water to dry mortar: 5,3/25 (l/kg)

Time of mortar's application: 35 min

Efficiency: 1,9 (kg/m²/mm)

Thickness of layer (min/max in mm): 1/5

Temperature of mortar applying: +5 to +25°C

Applying instruction: The ground must be well prepared for the application of mortar – it must be dry, free from dust, ice, efflorescence and other substances aggravating adhesion. Mortar in the quantity foreseen to the single use ought to be prepared through pouring the mixture into the water and through mechanical mixing. At the beginning of work constant proportion of components should be settled, so that following dosages were prepared in the same way (different proportions of components can cause the occurrence of chromatosises). The mortar ought to be drifted in the repeatable manner evenly on the surface plastered.

Finally it should be equalized with steel, even tool or with hard sponge. Hard-set mortar cannot be mixed once more with water or with fresh material and used again for plastering. Grounds strongly and asymmetrically absorbable, the same as those raising dust should be completely covered with the ground preparation RH. It is recommended also for the improvement of the adhesion of the put layer on the historic ground. All works ought to be lead at the rainless weather, small insolation and light breeze. In case of the necessity of the execution of works some protective covers limiting the climatic influence should be used.

Tools cleaning: With fresh water, directly after finishing the work.

Packaging: 25 kg bags.

Storage: Up to 6 months from the date of production, in free from damage, factory packagings, in dry places.

Warning: After mixing it with water product has an alkaline reaction. One should avoid contact with skin and protect the eyes. In case of contact with eyes they should be washed with water. Also medical consultation would be necessary.

Document: Fine-grained mortar has hygienic certificate of National Institute of Hygiene no. HK/B/1555/02/2009.