



PENTAGEL I 133

Additive in powder form for premixed cement-based insulating plasters

Technical Data Sheet, June 2015

DESCRIPTION **Pentagel I 133** is an additive in powder form specific for premixed quilt plasters containing cement and light aggregates with grain size up to 3.0 mm. They are applicable by machine when their composition also includes the use of normal aggregates, and by hand when the prevailing part of the aggregates consists of light aggregates.

FEATURES **Pentagel I 133** concentrates in a single additive all the features requested to a premixed insulating plaster. It gives excellent thixotropy and adhesion to all the traditional supports in 3-4 cm thick layers, excellent levelling and finish. Its special composition makes it workable for about 45 minutes, then, in normal weather conditions, it promotes the beginning of hardening bringing idle time down before the following finish operations. **Pentagel I 133** also reduces many serious defects in the plaster, including cracks and detachments that happen after hardening.

USE **Pentagel I 133** is used as a sole additive for the preparation of premixed insulating plaster containing cement, hydraulic or hydrated lime, crushed calcareous aggregates, perlite, polystyrene in shots, vermiculite, pumice, expanded clay etc. The product is normally added to the other components during mixing until total homogenisation. To avoid loss of additive during mixing, it is advisable to limit the degree of pulverization especially if it is added in the pure state as the last component.

TECHNICAL DATA

	Data	Method
State:	Powder	Visual
Colour:	Ivory-white	Visual
Density:	0,700± 0,100 kg/dm ³	IST. 10.06
Granulometry:	min. 95% < 0,600 mm	IST. 10.09
Humidity :	max. 4%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21

DOSAGE	The normal dosage of Pentagel I 133 is 1.3 ÷ 2.0% of the weight of the dry mixture.
STORAGE AND VALIDITY	Pentagel I 133 has 12-month validity beginning with delivery, if it is stored in a dry place and in the original bags kept perfectly closed. Should moisture be absorbed by the product, this does not affect its efficaciousness, but it makes its dosage difficult and the distribution in the finished mixture not homogeneous. It is therefore advisable to close bags carefully after each collection.
PRECAUTIONS	Pentagel I 133 is normally harmless in contact with skin and easily removable with water and soap. In case of contact with eyes it causes them to redden, but the trouble disappears by washing them with running water. Inhalation can cause a slight irritation of the first part of the respiratory tract, so it is advisable to use dust masks. In case of accidental loss it must be picked up in the dry state and discharged in an authorised waste dump. If possible, dry-clean the surface avoiding using water: it makes surfaces slimy and dangerous.
PACKING	25-kilo paper bags

The specifications stated in this report have been got either through standardized tests and rules or their modifications following Pentachem systems. The methods applied can be requested to our technical service.

All the data stated in this technical sheet are based on our knowledge and experience. However, before using the item differently from indicated, it is advisable to carry out preventive tests. In any case, PENTACHEM does not assume any responsibility for any damage or defect caused by the use of our products, as the employment conditions are not under our control. We also inform that our technical service is at our customers' disposal for any information concerning the correct employment of our products.