



PENTAGEL I 100/NM

Additive in powder form for premixed cement-based plasters

Technical Data Sheet August 2020

DESCRIPTION **Pentagel I 100/NM** is a solution additive in powder form specific for premixed cement-based plasters with grain size up to 1.5 mm, with and without hydrated lime, applicable by hand and machine.

FEATURES **Pentagel I 100/NM** is a solution additive that concentrates in a single additive all the features that are necessary to use cement mortar as a premixed plaster. It gives excellent thixotropy and wet adhesion to all the traditional supports in layers up to 2 cm thick, thus reducing the waste. Moreover, it makes levelling and finishing easier so quickening the application. In normal weather conditions, it keeps the initial workability for about 45 minutes, and then it promotes the beginning of hardening, reducing idle times before the following finish operations. Thanks to its special composition, **Pentagel I 100/NM** also reduces many serious defects in the plaster, including cracks and detachments that happen after hardening and are caused by excessive hydraulic shrinkage. It gives an excellent thixotropy both with and without hydrated lime.

USE **Pentagel I 100/NM** is used as a sole additive in the preparation of premixed plasters containing cement, or hydraulic lime and crushed calcareous aggregates. The product is normally added to the other components during mixing until total homogenisation. To avoid loss of additive during the mixing, it is advisable to limit the degree of pulverization especially if it is added in the pure as last component.

	Data	Method
TECHNICAL DATA		
State:	Powder	Visual
Colour:	Ivory white	Visual
Bulk density:	0.600 ± 0.050 kg/dm ³	IST. 10.07
Granulometry:	min. 85% < 0.1800 mm	IST. 10.09
Humidity:	Max. 4.0%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21
Water retention:	Min. 50 % (after 8 min.)	IST. 10.08

DOSAGE	The normal dosage of Pentagel I 100/NM is 0.10 - 0.25 % of the weight of the dry mixture.
STORAGE AND VALIDITY	If it is stored in a dry place and in the original bags kept perfectly closed, Pentagel I 100/NM has a 12 months validity from the date on the delivery note. Should moisture be absorbed by the product, this does not affect its efficaciousness, but it makes its dosage difficult and it can cause a non-homogeneous distribution in the finished mixture. It is therefore advisable to close bags carefully after each collection.
PRECAUTIONS	Pentagel I 100/NM is normally harmless in contact with skin and it is 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 a dust mask. In case of accidental loss, it must be picked up in the dry state and discharged in an authorised waste dump. Never use water, since it makes surfaces slimy and dangerous.
PACKAGING	25 kgs 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.