



PENTAGEL RS 612/M

Additive in powder form for skim cement mixtures

Technical Data Sheet, June 2015

- DESCRIPTION** **Pentagel RS 612/M** is a modified cellulose ether specific for premixed cement-based or gypsum-based finish mixtures having fine or very fine-sized grains, for smooth finishing, applicable by spatula.
- FEATURES** **Pentagel RS 612/M** is the ideal additive to give cement-based or gypsum-based smooth finish mixtures the features necessary to make the laying on easier. It improves the water retention in the mixture and the facility of application even in thin coats allowing an easy finish and the superposition of more coats without risking removing the previous ones or causing the irritating crimping behind the spatula. It allows application by machine as well, so reducing all operational times. It promotes the adhesion of the finish mixture to all traditional supports and, after hardening; it allows the application of all types of surface treatment.
- USE** **Pentagel RS 612/M** is used as an additive in the preparation of premixed cement-based finish mixtures for layers up to three mm. thick. When used with gypsum-based finish mixtures, it is necessary to add a specific retarder. It is also successfully used as a smooth-running adjuvant in all mixtures rich in fines both in powder and paste form. To improve the adhesion to particularly smooth supports and when laying on skim coats less than 1 mm thick, it is advisable to add **Pentaresin P3** to **Pentagel RS 612/M** in a ratio of 0.5÷1.5% to the total mixture. The product is normally added to the other components of the premixture during mixing until total dispersion. To avoid loss of additive during this operation, it is advisable to limit the degree of pulverization especially if it is added in the pure state as the last component.
- DOSAGE** The normal dosage of **Pentagel RS 612/M** ranges between 0.2÷0.5% of the weight of the dry mixture, depending on the expected effect.

	Data	Method	
TECHNICAL DATA	State:	Powder	Visual
	Colour:	Ivory-white	Visual
	Density:	0,500 ± 0,100 kg/dm ³	IST. 10.06
	Granulometry:	min. 96% < 0.300 mm.	IST. 10.09
	Humidity :	Max. 4.0%	IST. 10.04
	Water solubility:	Partially soluble	IST. 10.21
	Water retention:	Min. 60% after 8 min.; min. 35% after 30 min.	IST. 10.08

STORAGE AND VALIDITY

Pentagel RS 612/M 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 RS 612/M 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. Never use 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.