

PENTAGEL S2 / M

Additive for mortars and plasters

Technical Data Sheet, June 2015

DESCRIPTION

Pentagel S2/M is an additive in powder form to add to traditional mixtures of sand and cement to obtain extraordinary features of workability.

FEATURES

Thanks to its special composition, **Pentagel S2/M** deeply modifies the behaviour of traditional mortars improving their plasticity, lengthening the times of workability and making their application easier even in difficult situations. It allows avoiding the use of hydrated and/or hydraulic lime giving the mortars excellent plasticity and smooth running.

Plasters can be applied on wider surfaces without the risk of an early hardening due to a loss of water. This allows obtaining better finished surfaces, more planar and crack-free.

Besides, since **Pentagel S2/M** gives mortars better adhesiveness to wet surfaces, it allows an easier laying of plasters and a reduction of waste in all applicative conditions and especially in ceilings.

In the building of brickworks, since the mortars containing **Pentagel S2/M** have a longer period of workability, they allow obtaining boulder and straighter walls that, at the end of the hardening process, will be more rigid as well. Moreover, higher viscosity reduces the waste of mortar so improving running economy.

USE

Pentagel S2/M are commonly used in cement factories for the production of highly performing hydraulic limes. Should **Pentagel S2/M** be used in the preparation of premixed dry products, it has to be added in the mixer and mixed with the other components until complete homogenisation. The use of **Pentagel S2/M** on site is extremely easy: it is added to the cement in the concrete mixer at the rate of 2% on the weight of the total binder. In order to obtain the best



results, it is necessary to mix the mortar for not less than 5 minutes after its addition being careful not to add too much water. The recommended ratio of sand to cement (preferably portland cement 42.5 R) is respectively 4:1 for external plasters and masonries and 5:1 for internal plasters. Mortars containing **Pentagel S2/M** are normally applied by hand, but they can also be sprayed with all types of machine without any problem.

	Data	Method	
TECHNICAL DATA	State:	Powder	Visual
	Colour:	Ivory-white	Visual
	Density:	0,800 ± 0,100 kg/dm ³	IST. 10.06
	Granulometry:	Min. 95% < 0,180 mm	IST. 10.09
	Humidity :	Max. 4%	IST. 10.04
	Water solubility:	Partially soluble	IST. 10.21

DOSAGE

The recommended dosage of **Pentagel S2/M** is 0.2% of the total binding. Different dosages can be used depending on the expected results, after carrying out preliminary tests.

STORAGE AND VALIDITY

Pentagel S2/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 S2/M is harmless both by contact and by ingestion. It is easily removable from any surface with water and soap. 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.