



PENTATARD AC

Retarder additive for gypsum in neutral systems

Technical Data Sheet, June 2015

DESCRIPTION	Pentatard AC is a retarder in powder form having a mild plasticizing effect, for gypsum, scagliolas and gypsum-based mixtures provided they are hydrated lime-free.
FEATURES	Pentatard AC acts preferably in neutral systems, that is to say in systems that are free or with very small quantities of hydrated lime and any other bivalent alkali cations. It stands thermal action up to 200°C without undergoing any deep alteration so that efficaciousness is not affected; it can be added to gypsum or scagliola in the burning “pot” during the pre-unloading phase, giving the additive the time to disperse homogeneously. When using other methods of burning, it can be added on going out of the kiln, before the ensilage, always keeping in mind that the additive must disperse homogeneously. A fundamental characteristic of Pentatard AC is that it delays the setting time of gypsum in proportion to the dosage, even from the very first small additions. That allows excellent flexibility in the control of the expected using times.
USE	Besides being used as a specific retarder for gypsum and scagliolas, Pentatard AC is also a corrector of the using times of various gypsum-based smooth finishes and plasters not containing hydrated lime. In that case and in consideration of the low dosages of Pentatard AC, it is advisable to lengthen the standard mixing times of 4 minutes at least.

TECHNICAL DATA

	Data	Method
State:	Powder	Visual
Colour:	Ivory – white	Visual
Density:	1,150 ± 0,100 kg/dm ³	IST. 10.06
Granulometry:	Min. 90% < 0,600 mm	IST. 10.09
Humidity :	Max. 4.0%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21

DOSAGE	The range of dosage of Pentatard AC is included between 0.005% and 0.01% of the weight of scagliola, depending on the expected effect.
STORAGE AND VALIDITY	Pentatard AC has 12-month validity beginning with delivery, if 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	Pentatard AC is harmless by contact with skin. It is easily removable with water from any surface. Inhalation can cause a slight irritation of the first part of the respiratory tract; it is therefore 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. Dry-clean the surfaces avoiding the use of water. In case of pollution of water-bearing stratum, please inform the competent authorities. Do not disperse the product and the bags in the environment.
PACKING	25-kilo paper bags

All the data stated in this technical sheet are based on the best of our knowledge and experience. 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.