



# PENTATARD AC

## Retarder for gypsums in neutral systems

Technical Data Sheet, October 2015

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**DESCRIPTION** **Pentatard AC** is a retarder in powder form with a mild plasticizing effect for gypsums, scagliolas and gypsum-based mixtures provided they are hydrated lime-free.

**FEATURES** **Pentatard AC** acts in preferably neutral systems, i.e. in systems that are free from hydrated lime or in presence of very small quantities of hydrated lime and any other bivalent alkali cation.  
It stands thermal action up to 200°C without undergoing any deep alteration, so its 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 gypsums 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.

	Data	Method
<b>TECHNICAL DATA</b>		
<b>State:</b>	Powder	Visual
<b>Colour:</b>	Ivory-white	Visual
<b>Bulk Density:</b>	0.500 ± 0.100 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 98 % < 0.180 mm	IST. 10.09
<b>Humidity:</b>	Max.4,0%	IST. 10.04
<b>Water solubility:</b>	Partially soluble	IST. 10.21

<b>DOSAGE</b>	The range of dosage of Pentatard G 5 is included between 0.005% and 0.01% of the weight of scagliola, depending on the expected effect
<b>STORAGE AND VALIDITY</b>	<p><b>Pentatard AC</b> has a 12-months validity starting from the date of the delivery, only if it is stored in a dry place and in the original bags kept perfectly closed.</p> <p><b>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.</b></p> <p>It is therefore advisable to close bags carefully after each collection.</p>
<b>PRECAUTIONS</b>	<p><b>Pentatard AC</b> is slightly irritant by contact with skin.</p> <p>It is easily removable from any surface with water.</p> <p>Inhalation can cause a slight irritation of the first part of the respiratory tract; it is therefore advisable to use a dust mask.</p> <p>In case of accidental loss it must be picked up in the dry state and discharged in an authorised waste dump.</p> <p>Dry-clean the surfaces avoiding the use of water. In case of pollution of water-bearing stratum, please inform the competent authorities.</p> <p>Do not disperse the product and the bags in the environment.</p> <p>For further information please refer to the Safety Data Sheet.</p>
<b>PACKAGING</b>	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.