



PENTAMIX AER 206

Air entraining agent in powder form for cement and gypsum based mixtures

Technical Data Sheet September 2015

DESCRIPTION **Pentamix AER 206** is an additive in powder form specific for the introduction of stable micro bubbles of air into cement and gypsum based premixed products.

FEATURES Thanks to its special grain size conformation, its specific density, and its easiness of dispersion, **Pentamix AER 206** allows to obtain particularly homogeneous mixtures with no risk of segregation from the rest after mixing. Its high concentration in active matter and the fast solubility in water allow to obtain highly stable micro-bubbles of air, which make plasters and mortars easy to be applied, both by hand and machine, and without waste. Besides, it improves the capacity of the mixtures to be sprayed and smoothed.

In the hardened state, its special porosity and capillarity allow plasters and mortars to become more resistant to freeze-thaw cycles and more durable than those obtained with milder air entraining agents.

Moreover, the wetting capacity of **Pentamix AER 206** also allows a better use of the other additives contained in the formula of the finished product.

USE **Pentamix AER 206** is used as an air entraining agent for the preparation of premixed cement and gypsum based plasters and smooth finishes to be applied by hand and machine.

The product is normally added to the other components during the mixing until total dispersion. To avoid loss of additive during this operation, it is advisable to limit the degree of pulverization, especially if the product is added in the pure state as the last component.

TECHNICAL DATA

	Data	Method
State:	Powder	Visual
Colour:	White	Visual
Density:	$0.650 \pm 0.100 \text{ kg/dm}^3$	IST. 10.07
Bulk density	Min. 90% < 0.600 mm	IST. 10.09
Humidity	Max. 4.0%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21

DOSAGE	<p>The range of dosage of Pentamix AER 206 is 0.02 - 0.1% of the weight of the dry mixture, depending on the expected effect.</p> <p>However, it is advisable to carry out preliminary tests in order not to exceed the maximum dosage allowed by the characteristics of the finished product. It is necessary to keep in mind that there is always a critical dosage for these products, beyond which the dispersing action prevails over the aerating action</p>
STORAGE AND VALIDITY	<p>If it is stored in a dry place and in the original bags kept perfectly closed, Pentamix AER 206 has a 12 months validity beginning with delivery.</p> <p>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.</p>
PRECAUTIONS	<p>Pentamix AER 206 is irritating for all the mucous membranes and the eyes.</p> <p>Normally, it is not harmful when in contact with skin, and it is easily removable with water and soap from it.</p> <p><u>Inhalation causes serious irritation of the first part of the respiratory tract. This trouble disappears immediately once its handling stops. It is therefore advisable to use dust masks and not to disperse it in the environment.</u></p> <p>In case of accidental loss, it must be picked up in dry state and discharged in an authorised waste dump.</p> <p>For more information, safety data sheet</p>
PACKAGING	25 kg 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.