



# ANTIFOAM PS3 and PS4

## Antifoaming agents in powder form

Technical Data Sheet September 2018

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**DESCRIPTION** **Antifoam PS3** and **Antifoam PS4** are next-generation defoaming agents in powder form for cement, hydrated lime and gypsum-based dry premixed products, as well as for any systems in powder form.

**FEATURES** **Antifoam PS3** and **Antifoam PS4** consist of a mixture of silicone oils, polyglycols, and surfactant polymers on a mineral support. Their action starts as soon as the dry mixture comes into contact with water, preventing the formation of foam in general and reducing the size of the bigger bubbles even under strong mechanical agitation. The active components of **Antifoam PS3** and **Antifoam PS4** are very resistant to the highly basic pH of cement and they are not biodegradable, thus after their dispersion in water they keep their efficaciousness for a long time. In self-levelling mortars, **Antifoam PS3** and **Antifoam PS4** are able to remove the bubbles of air from the surface very rapidly, thus giving the final product a perfectly flat surface with no superficial craters.

**USE** Thanks to their particular composition, **Antifoam PS3** and **Antifoam PS4** have a wide-ranging use: from cement-based mixtures for self-levelling products, smooth finishes, and mortars for repair works to hydrated lime-based paints and smooth finishes. Moreover, since they are stable in highly alkaline systems, they are also used with put lime-based products in paste form, in which they promote also a certain plasticizing effect.

	Data	Method
<b>TECHNICAL DATA</b>		
<b>State:</b>	Powder	Visual
<b>Colour:</b>	White	Visual
<b>Specific gravity:</b>	0.600 ± 0.050 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 95.0% < 0.180 mm	IST. 10.09
<b>Humidity:</b>	Max. 10.0%	IST. 10.04
<b>Water solubility:</b>	Insoluble	IST. 10.21

- DOSAGE** The recommended dosage of **Antifoam PS3** and **Antifoam PS4** is 0.01 - 0.2% on the weight of the solids, depending on the quantity of air to reduce. After carrying out preliminary tests, different dosages from the suggested ones can be employed, depending on the desired results.
- STORAGE AND VALIDITY** If they are stored in a dry place and in the original bags kept perfectly closed, **Antifoam PS3** and **Antifoam PS4** have a 12 months validity from the date on the delivery note. Should moisture be absorbed by the product, this does not prejudice its efficacy, 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** **Antifoam PS3** and **Antifoam PS4** are harmless by contact with the skin. They are easily removable from any surface with water and soap. Inhalation can cause an irritation of the first part of the respiratory tract. This trouble disappears immediately after stopping using it. It is therefore advisable to use a dust mask and not to disperse them in the environment. In case of accidental loss, they must be picked up in the dry state and discharged in an authorised waste dump.
- 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.

