



# PENTARAPID AG 4

## Accelerating agent for gypsum

Technical Data Sheet, October 2015

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**DESCRIPTION** **Pentarapid AG 4** is an accelerator in powder form for gypsums, scagliola, anhydride and gypsum-based mixtures.

**FEATURES** **Pentarapid AG 4** is resistant to thermal action up to 200°C without undergoing any deep alteration, so its efficaciousness is not affected. It can be added to gypsum during the unloading phase, always keeping in mind that it is essential to disperse the additive homogeneously before the ensilage. A fundamental characteristic of **Pentarapid AG 4** is that it accelerates the setting time of gypsum, in neutral systems, in proportion to the dosage. That allows excellent flexibility in the control of the expected using times. **Pentarapid AG 4** works properly even in presence of hydrated lime or any other bivalent alkali cation, provided that their amount does not exceed the quantity of 4% of the weight of the gypsum; it therefore accelerates both the setting and the hardening time. Besides, it sensibly improves the strength of gypsum and above all of anhydride.

**USE** Besides being used as a specific accelerating agent for gypsums, scagliolas and anhydride, **Pentarapid AG 4** is also a corrector of the using times of various gypsum-based plasters and smooth finishes.

	Data	Method
<b>TECHNICAL DATA</b>		
<b>State:</b>	Powder	Visual
<b>Colour:</b>	White-beige	Visual
<b>Bulk Density:</b>	0.900 ± 0.100 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 60 % < 0.600 mm	IST. 10.09
<b>Humidity:</b>	Max. 4%	IST. 10.04
<b>Water solubility:</b>	92% soluble	IST. 10.21

**DOSAGE** The range of dosage of **Pentarapid AG 4** is included between 0.2 and 1.5% of the weight of the gypsum, depending on the expected acceleration.

**STORAGE AND VALIDITY**

**Pentarapid AG 4** 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. Should moisture be absorbed by the product, this does not affect its efficaciousness, but it makes its dosage difficult and the dispersion in the finished mixture not homogeneous.

It is therefore advisable to close bags carefully after each collection.

**PRECAUTIONS**

**Pentarapid AG 4** may be irritating by contact with the skin.

It is easily removable from any surface with water and soap.

Inhalation can cause an 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.

**PACKAGING**

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.