

PENTATARD G 5 I

Set retarder for gypsum in neutral and slightly alkali environments

Technical Data Sheet October 2020

DESCRIPTION **Pentatard G 5 I** is a set retarder in powder form with a mild plasticizing effect for gypsums, scagliolas, and gypsum-based admixtures **both neutral and slightly alkali**.

FEATURES **Pentatard G 5 I** mainly acts in neutral systems, i.e. in systems that are free from hydrated lime and any other bivalent alkali cation. The additive however tolerates low quantities of lime or alkali cations and they do not affect its efficaciousness. It stands thermal action up to 200°C without 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 when gypsum comes out from the kiln, before the ensilage. Always keep in mind that the additive must disperse homogeneously. A fundamental characteristic of **Pentatard G 5 I** is its ability to delay the setting times 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 Apart from its usage as a specific set retarder for gypsums and scagliolas, **Pentatard G 5 I** also corrects the working times of various gypsum-based smooth finishes and plasters. In that case, due to the low dosages of **Pentatard G 5 I**, it is advisable to lengthen the standard mixing times of 4 minutes at least.

	Dati	Metodo
DATI TECNICI	State:	Powder
	Color:	Ivory
	Bulk density:	0.650 ± 0.100 kg/dm ³
	Granulometry:	Min. 80 % < 0.300 mm
	Humidity:	Max. 4.0 %
	Water solubility:	Partially soluble
		IST. 10.07
		IST. 10.09
		IST. 10.04
		IST. 10.21

DOSAGE	The dosage of Pentatard G 5 I ranges between 0.002% and 0.05% of the weight of scagliola, depending on the expected effect. Higher dosages of Pentatard G 5 I can be used after preliminary tests.
STORAGE AND VALIDITY	If it is stored in a dry place and in the original bags kept perfectly closed, Pentatard G 5 I has a 12 months validity starting from the date on the delivery note. If the product absorbs moisture, that does not affect its efficaciousness, but it makes its dosage difficult and can cause a non-homogeneous distribution in the finished mixture. It is therefore advisable to close bags carefully after each collection.
PRECAUTIONS	Pentatard G 5 I is harmless by contact with skin. It is easily removable from any surface with water and soap. 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 authorized waste dump. Dry-clean the surfaces avoiding the use of water. In case of pollution of aquifers, please inform the competent authorities. Do not disperse the product and the bags in the environment. For further information, please check the Security Data Sheet.
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.

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