



# PENTASTUC GS 90

## Additive for gypsum-based fillers and smooth finishes

Technical Data Sheet, November 2015

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### DESCRIPTION

**Pentastuc GS 90** is an additive in powder form used in the preparation of a wide range of gypsum-based fillers and smooth finish mixtures free from lime and other alkali substances.

It is particularly suitable for the preparation of plasterboards in gypsum and adhesives for cornices and rose-windows.

### FEATURES

Thanks to its special composition, **Pentastuc GS 90** gives fillers and smooth finish mixtures excellent facility of laying and smoothing. These characteristics are particularly appreciated in fillers for repair works and in low-thickness smooth finish mixtures. The application is easy and free from "peelings" even on porous supports. Besides, the facility of application allows obtaining excellent results and saving time in the filling of hollows and the levelling of rough surfaces.

The fillers and the smooth finish mixtures obtained with **Pentastuc GS 90** do not crack and harden quickly after the application making the work faster.

The finished surfaces turn out to be hard, resistant and free from powder. That allows the application of any kind of treatment with excellent adhesion and durability.

**Pentastuc GS 90** with a dosage of 2.0÷3.0% on the mixture gives an open time of 90 minutes. This open time can be enlarged up to 8 hours by only adding **Pentatard G 3**.

### USE

**Pentastuc GS 90** is particularly suitable for the preparation of fine and very fine fillers and smooth finish mixtures made of good-quality gypsum, preferably not originally supplemented with additives, and fine limestone.

Their average dosage is 60 – 70% of fine gypsum, 30 – 40% of fine limestone (grain size below 40 microns) and 2 – 3% of **Pentastuc GS 90**.

**Pentastuc GS 90** has been designed as a base additive for a wide range of fillers (for plasterboards, for smooth finishes, for filling holes, for adhesives, etc.)

All possible variations can be obtained by adding **Pentatard G 3** and/or **Pentaresin P 3** depending on the desired features.

**Pentastuc GS 90** is to be put into the mixer together with the gypsum and the other components and mixed until total homogenisation. A perfect mixing allows obtaining the best application results and absence of waste.

When preparing a wet mixture, it is advisable to add the batched water while mixing slowly and continuously until obtaining the expected consistency and perfect homogenisation. Avoid introducing air.

Since all the components are very fine, it is also advisable to wait some minutes after mixing, until all the particles are perfectly wet.

	Data	Method
<b>TECHNICAL DATA</b>		
<b>State:</b>	Powder	Visual
<b>Colour:</b>	Ivory-white	Visual
<b>Bulk Density:</b>	0.650 ± 0.100 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 96 % < 0.180 mm	IST. 10.09
<b>Humidity:</b>	Max. 4%	IST. 10.04
<b>Water solubility:</b>	Partially soluble	IST. 10.21

**DOSAGE** The recommended dosage of **Pentastuc GS 90** is 2.0 - 3.0% of the weight of the dry mixture. Different dosages can be used, depending on the expected results, after carrying out preliminary tests.  
The open time is adjustable with **Pentatard G 3**.

**STORAGE AND VALIDITY** **Pentastuc GS 90** 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** **Pentastuc GS 90** is harmless both by contact and by ingestion. It is easily removable from any surface with water and soap. While using **Pentastuc GS 90**, it is recommendable to comply with all the safety rules provided for the handling of powdery substances; it is therefore advisable to use a dust mask.  
In case of accidental loss, never use water: it makes the surfaces slimy and dangerous. It must be picked up in the dry state and discharged in an authorised waste dump. For further information please refer to the Safety Data Sheet.

**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.