



PENTASTUC GS.5P

Additive for gypsum-based putties and smooth finishes

Technical Data Sheet September 2015

DESCRIPTION

Pentastuc GS.5 P is an additive in powder form used for the preparation of putties and smooth finish mixtures based on gypsum.

It modifies the open time of the wet admixture and, depending on its dosage, it allows a workability of 2 – 8 hours.

FEATURES

Thanks to its special composition, **Pentastuc GS.5 P** gives putties and smooth finishes an 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 putties and the smooth finishes obtained with **Pentastuc GS.5 P** do not crack and harden quickly after the application, thus 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.

Open time depends on the dosage of **Pentastuc GS.5 P**. Usually 2% dosage allows an open time of 4 hours (in a clean vase) and with 3% it is possible to reach 8 hours. If the vase is not clean, the above-mentioned open times are cut by half.

To further prolong open times, please add **Pentatard G3**.

USE

Pentastuc GS.5 P is particularly suitable for the preparation of fine and very fine putties and smooth finishes made of good-quality gypsum, preferably not originally supplemented with additives, and fine limestone.

Their average dosage is 60 – 70% of fine gypsum – alabaster type, 30 – 40% of fine limestone (grain size below 40 microns) and 2.0 – 3.0% of **Pentastuc GS.5 P**.

Add **Pentastuc GS.5 P** into the mixer together with the gypsum and the other components and mix until total homogenization. A perfect mixing allows obtaining the best application results and avoiding wastes.

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 homogenization without introducing air.

Since all the components are extremely fine, it is also advisable to wait some minutes after mixing, until all the particles are perfectly wet. Thus, it is possible to avoid the formation of lumps that could cause small problems during the application.

After the experiences of our customers, by adding **Pentaproof 20P** it is possible to make stuccos and rosettes waterproofed and durable in time even if their surfaces have not been previously treated.

	Data	Method
TECHNICAL DATA		
State:	Powder	Visual
Colour:	Ivory white	Visual
Bulk density:	0.650 ± 0.100 kg/dm ³	IST. 10.07
Granulometry:	Min. 90% < 0.180 mm	IST. 10.09
Humidity:	Max. 4.0%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21

DOSAGE

The recommended dosage of **Pentastuc GS.5 P** is 2.5 – 3.0 % on the weight of the dry mixture. Different dosages can be used, depending on the expected results, after carrying out preliminary tests.

In order to further lengthen open time, it is suggested to add 0.04 – 0.08% of **Pentatard G3**.

STORAGE AND VALIDITY

If it is stored in a dry place and in the original bags kept perfectly closed, **Pentastuc GS.5 P** has a 12 months validity starting from the date on the delivery note.

If the product absorbs moisture, this does not affect its efficaciousness, but it makes its dosage difficult and it can cause a non-homogeneous dispersion in the finished mixture.

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

PRECAUTIONS

Pentastuc GS.5 P is harmless both by contact and by ingestion.

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

While using **Pentastuc GS.5 P**, 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 since 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.