



PENTAFLW AN/G

Superplasticizer in powder form for semi-hydrated gypsum-based self-levelling screeds

Technical Data Sheet November 2015

DESCRIPTION

Pentaflow AN/G is composed by the sodium salt of a sulfonated polymer with an activator of the setting of gypsum. Its high dispersing action allows obtaining micro-concretes and screeds.

Pentaflow AN/G allows to adjust the setting time proportionally to the dosage. It does not introduces any air and modifies the consistency of the mixture from wet to fluid or superfluid depending on the dosage used.

FEATURES

The reduction of the Water/Product ratio increases the mechanical strength of screeds and micro-concretes to all agings.

Self-levelling gypsum-based screeds obtained by adding **Pentaflow AN/G** can show bleeding phenomena; it is therefore necessary to batch the additive correctly and not to exceed with the batched water.

The reduction of the water/powder ratio reduces the porosity and capillarity of the mixture, thus giving mixtures a better impermeability and durability as well as a more beautiful appearance and less shrinkage.

The setting time can be retarded by adding **Pentatard G 3**. Self-levelling time with **Pentaflow AN/G** ranges from 1.5 to 2.0 hours depending of the nature of the basic gypsum.

USE

Pentaflow AN/G is normally used in the preparation of gypsum-based dry premixed mortars and in particular of screeds and self-levelling micro-concretes.

TECHNICAL DATA

	Data	Method
State:	Powder	Visual
Colour:	White	Visual
Bulk density:	1.125 ± 0.125 kg/dm ³	IST. 10.07
Granulometry:	Min. 70% < 0.180 mm	IST. 10.09
Humidity:	Max. 5.0%	IST. 10.04
Water solubility:	Partially soluble	IST. 10.21
Temperature of use:	>0°C	

DOSAGE	The range of recommended dosage is 0.5 – 0.8% of the weight of the mixture. Different dosages can be used, according to the different needs, after carrying out preliminary tests.
WAY OF APPLICATION	Pentaflow AN/G must be added to all other components preferably in the dry state right before adding the mixing water.
STORAGE AND VALIDITY	If it is stored in a dry place and in the original bags kept perfectly closed, Pentaflow AN/G has a 12-months validity starting from the date on the delivery note. Should moisture be absorbed by the product, this 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	Pentaflow AN/G is slightly irritant in contact with 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. This trouble disappears immediately by stopping handling; it is therefore advisable to use a dust mask and avoid its dispersion in the environment. In case of accidental loss, 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.