



# PENTAFLFLOW AN/T

Superplasticizer in powder form for anhydrite-based self-levelling mortars

Technical Data Sheet, November 2015

**DESCRIPTION** **Pentaflow AN/T** is the sodium salt of a condensed and sulfonate melamine with an activator of the setting of the anhydrite. Its high dispersing action allows obtaining micro-concretes and screeds.  
**Pentaflow AN/T** produces an acceleration of the setting time proportional 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 anhydrite-based screeds obtained by adding **Pentaflow AN/T** 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 W/Product ratio lowers the porosity and capillarity of the mixture, thus giving the concretes better impermeability and durability as well as a more beautiful appearance and less shrinkage.  
The setting time, after checking anhydrite's pH, can be fastened by adding **Pentarapid AG 3**. This operation is necessary at low temperatures.

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

	Data	Method
<b>TECHNICAL DATA</b>		
<b>State:</b>	Powder	Visual
<b>Colour:</b>	White	Visual
<b>Bulk Density:</b>	$1.125 \pm 0.125 \text{ kg/dm}^3$	IST. 10.07
<b>Granulometry:</b>	min. 70% < 0.180 mm	IST. 10.09
<b>Humidity:</b>	max. 5 %	IST. 10.04
<b>Water solubility:</b>	Partially soluble	IST. 10.21
<b>Usage temperature:</b>	> 0°C	

<b>DOSAGE</b>	<p>The range of recommended dosage is 1.5-2.0% of the weight of the anhydrite when it is lower than 40% on the weight of the total mixture. If the weight of the anhydrite is higher than 40% the dosage is 0.5 – 1.0% on the total mixture. Different dosages can be used, according to the different needs, after carrying out preliminary tests.</p>
<b>WAY OF APPLICATION</b>	<p><b>Pentaflow AN/T</b> must be added to all other components preferably in the dry state right before adding the mixing water.</p>
<b>STORAGE AND VALIDITY</b>	<p><b>Pentaflow AN/T</b> 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 distribution in the finished mixture not homogeneous. It is therefore advisable to close bags carefully after each collection.</p>
<b>PRECAUTIONS</b>	<p><b>Pentaflow AN/T</b> is slightly irritant by 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.</p>
<b>PACKAGING</b>	<p>25-kgs paper bags</p>

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.