



PENTAFLOW TW

Universal superfluidifying additive for ready-mixed grouts

Technical Data Sheet, October 2015

DESCRIPTION

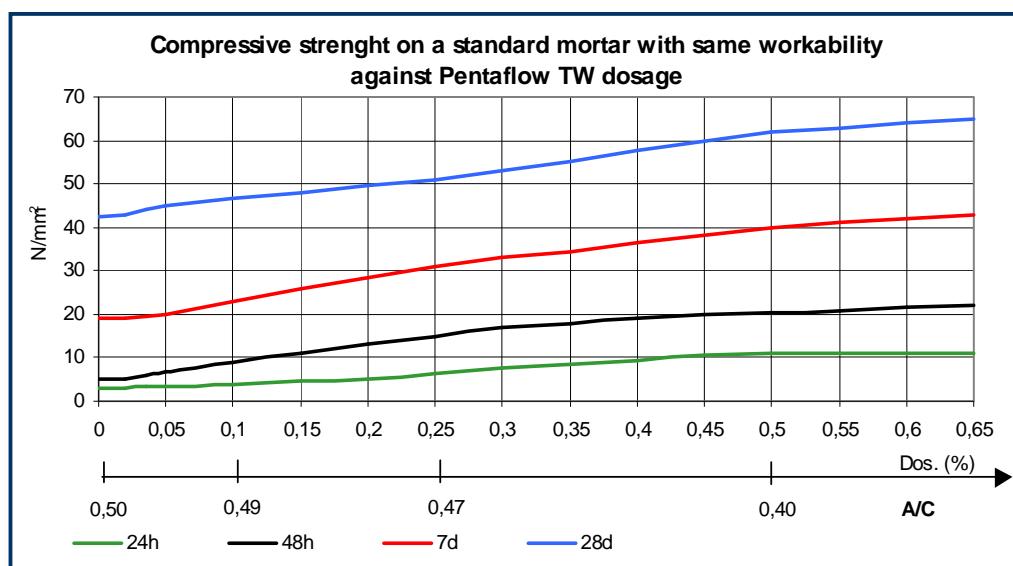
Pentaflow TW is a superplasticizing agent in powder form based on naphthalenesulfonate that, thanks to the high dispersant action of its components, allows improving the quality of concrete and micro-concretes in terms of workability, impermeability, strength and durability.
Pentaflow TW does not affect the setting time, but it modifies the consistency of the mixtures from wet to fluid or super fluid, despite the low W/C ratio

FEATURES

It improves the workability and the laying of the mixture, making the concrete more plastic and cohesive.
The reduction of the W/C ratio increases the resistance to the seasoning process.
Auto-levelling concretes obtained by adding **Pentaflow TW** do not show any segregation or bleeding phenomena.
The concrete is more workable, pumpable and easy to apply.
The reduction of the W/C ratio lowers the porosity and capillarity of the mixture thus giving concretes better impermeability and durability as well as a more beautiful appearance and less shrinkage.

USE

Thanks to its features, **Pentaflow TW** allows obtaining high quality concretes both in the industry of pre-manufacturing and producing ready-mixed concretes. It is particularly suitable for cement mixtures and premixed dry micro-concretes.



	Data	Method
	Chemical composition	Sodium polynaphthalene sulfonate
TECHNICAL DATA	State:	Powder
	Colour:	Brown
	Bulk Density:	0.650 ± 0.100 kg/dm ³
	Potential of hydrogen (pH)	8 ± 1 (sol 10%)
	Granulometry:	Min. 90% < 0.600 mm
	Humidity:	Max. 8%
	Sulfate content:	Max. 2.5%
	Water solubility:	Completely soluble
	Temperature of use	>0°C

DOSAGE AND WAY OF USE In dry premixed mortars the recommended range of dosage is 0.1 - 1.0% to the weight of the mixture, depending on the expected degree of fluidification.
 In concretes and wet mortars the dosage of **Pentaflow TW** is normally 0.2 - 0.6% to the weight of the cement.
Pentaflow TW should be added to the mixture of components immediately after adding the first mixing water, in order to allow modifications of the consistency of the mortar. Different dosages can be used only after experimental determination.

STORAGE AND VALIDITY **Pentaflow TW** has 12-months validity from the date on the delivery note, 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 the bags carefully after each collection.

PRECAUTIONS **Pentaflow TW** is harmless 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 dust masks 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.

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.

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