

PENTAFLFLOW BP

Plastifying fluidifying agent in powder form for all types of ready-mixed mortars

Technical Data Sheet November 2015

DESCRIPTION

Pentaflow BP consists of a mixture of synthetic polymers which, thanks to the high dispersing action of its components, allows improving the quality of concrete and micro-concretes in terms of workability, plasticity, waterproofness, strength, and durability.

Depending to the dosage, **Pentaflow BP** lengthens the setting time, it introduces very small amounts of air micropores, and it modifies the consistency of the mixture from wet to fluid or superfluid despite low W/C ratio.

FEATURES

Pentaflow BP improves the workability and the application of the mixture, making concrete more plastic and more cohesive.

Reduction in W/C ratio increases mechanical strengths to seasonings.

Fluid-plastic concretes obtained by adding **Pentaflow BP** do not show any sign of segregation or bleeding phenomena.

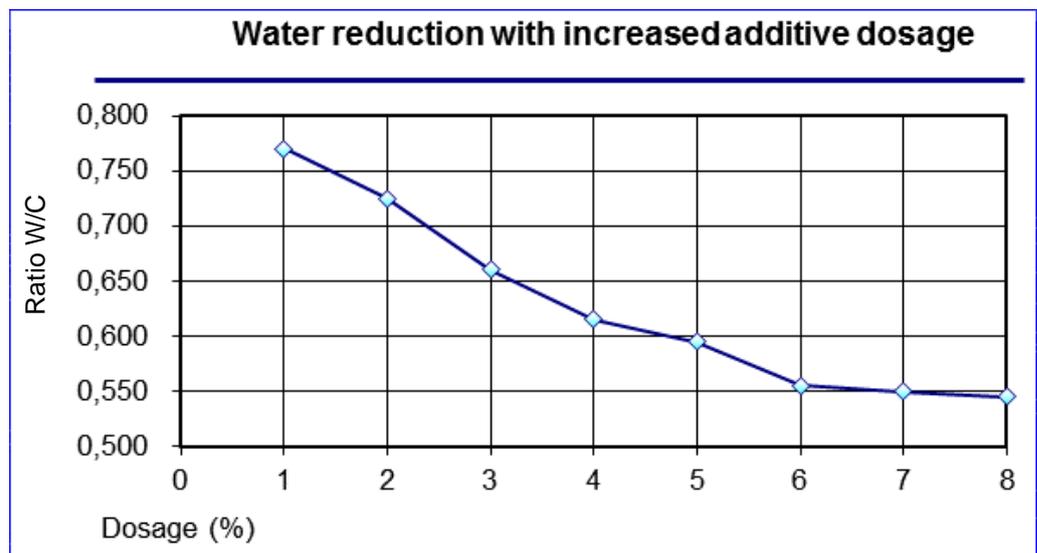
Concrete is more pumpable and easier to be applied.

Reduction in W/C ratio lowers the porosity and capillarity of the conglomerate, thus giving concretes a better waterproofness and a better durability, as well as a more beautiful appearance and less shrinkage.

USE

Thanks to its characteristics, **Pentaflow BP** always allows to obtain high quality concretes, in particular in the production of ready-mixed concretes.

It is particularly suitable for cement based mixtures and premixed dry micro concretes.



	Data	Method
TECHNICAL DATA		
State:	Hygroscopic Powder	Visual
Colour:	Dark brown	Visual
Bulk density:	0.550 ± 0.100 kg/dm ³	IST. 10.07
Potential of hydrogen (pH):	9.50 ± 1.0	IST. 10.05
Granulometry:	Min. 95% < 0.180 mm	IST. 10.09
Humidity:	Max. 4%	IST. 10.04
Water solubility:	Totally soluble	IST. 10.21

DOSAGE

The range of recommended dosage is 0.1 - 1.0% of the weight of the cement, depending on the expected degree of fluidification. Different dosages can be used, according to the different needs, after carrying out preliminary tests.

WAY OF USE

Pentaflow BP must be added to the mixture of the components of concrete, preferably in the dry state, before adding the batched water. As for the use of **Pentaflow BP** in ready-mixed concrete, it is advisable to add it just before the unloading, mixing it for at least 5 minutes.

STORAGE AND VALIDITY

If it is stored in a dry place and in the original bags kept perfectly closed, **Pentaflow BP** has 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 the distribution in the finished mixture not homogeneous. It is therefore advisable to close bags carefully after each collection.

PRECAUTIONS

Pentaflow BP is harmless by contact with skin. It is easily removable from any surface with water and soap. Inhalation can cause irritation of the first part of the respiratory tract. This trouble disappears as soon as the handling of the product stops. It is therefore advisable to use an anti-dust mask and to 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 kg 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.