

PENTA ECP 15

Cellulose ether with delayed solubility

Technical Data Sheet November 2015

DESCRIPTION

PENTA ECP 15 is a medium-high viscosity cellulose ether with delayed solubility in neuter or slightly acid environment.

It quickly solubilizes in alkaline environments, thus incrementing the viscosity of the system.

PENTA ECP 15 is suitable to stabilize resin-based systems in aqueous dispersion, and to make them viscous.

USE

Thanks to its delayed solubility in both neutral and alkaline systems or in a solvent dispersion, usage of **PENTA ECP 15** is recommended in mixtures containing latex or resins in dispersion, to make the mixing and the homogenization of other products easier. The subsequent alkalization increases the viscosity of the system, thus stabilizing it.

The viscosity produced by **PENTA ECP 15** after alkalization allows to obtain doughy and thixotropic mixtures, which maintain these characteristics for a long time.

Products obtained with **PENTA ECP 15** have a wonderful water retention and a great yield.

If **PENTA ECP 15** is added to alkaline solutions, even under great agitation, it can produce clumps, which can be redispersed with difficulty.

TECHNICAL DATA

	Data	Method
Composition:	Alkyl hydroxyalkyl cellulose	
State:	Granular powder	Visual
Colour:	Ivory-white	Visual
Bulk Density:	0.550 ± 0.100 kg/dm ³	IST. 10.07
Granulometry:	Min. 85% < 0.300 mm	IST. 10.09
Humidity:	Max. 4.0 %	IST. 10.04
Water solubility:	Totally soluble	IST. 10.21
Water retention:	Min. 65% after 8 minutes	IST. 10.08

Features of the liquid solution

Surface activity:	Weak
pH 20°C (1% solution):	7 ± 0.1
Viscosity at 20°C:	13000 – 18000 mPa.s (2% solution Brookfield RV)

DOSAGE

For waterpaints and cementitious mixtures, dosage of **Penta ECP 15** is normally 0.2 – 1% on the total weight of the finished product.

It is however advisable to carry out preliminary tests on the specific mixtures in order to adjust the dosage of the additive to the needs.

STORAGE AND VALIDITY

If it is stored in a dry place and in the original bags kept perfectly closed, **PENTA ECP 15** has a 12 months validity, starting from the date on the delivery note.

Should moisture be absorbed by the product, it 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

PENTA ECP 15 is normally harmless in contact with skin, and it is easily removable with water and soap. In case of contact with eyes, it causes them to redden. However, this trouble disappears by rinsing them with running water.

Inhalation can cause a slight irritation of the first part of the respiratory tract. It is so advisable to use an anti-dust mask.

In case of accidental loss, it must be picked up in the dry state and discharged in an authorised waste dump.

Dry-clean the surfaces, avoiding if possible the use of water, since it makes surfaces slimy and dangerous.

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.