



PENTA EC FOR PLASTERS

Modified Cellulose Ethers

Technical Data Sheet September 2015

DESCRIPTION **Penta EC for plasters** are cellulose ethers specially modified to allow a quick solubilisation in water both in a neutral and alkaline system.

USE The quick development of viscosity of **Penta EC for plasters**, without making lumps both in a neutral and alkaline system, allows to immediately obtain the desired consistency of the product to be applied. This feature makes them particularly suitable for the production of cement and gypsum-based plasters applicable by machine.



The range of viscosity and of available modifications makes easier the formulation of plasters and smooth finishes with every type of binder and aggregate available.

Another feature of PENTA EC for plasters is the easiness to obtain wet mixtures that are highly plastic, thixotropic and easy to apply.

The excellent water retention allows a long workability time without lessening the wet adhesion to the support included the ceilings, and eliminates the irritating surface peeling.

TECHNICAL DATA

| | Data | Method |
|--------------------------|--------------------------------|------------|
| Chemical nature: | Modified HPMC | |
| State: | Powder | Visual |
| Colour: | Beige-white | Visual |
| Bulk Density: | 0.400±0.100 kg/dm ³ | IST. 10.07 |
| Granulometry: | Min 95% < 0.180mm | IST. 10.09 |
| Humidity : | Max 4.0% | IST. 10.04 |
| Water solubility: | Totally soluble | IST. 10.21 |
| Water retention: | Min 60% (after 8 min) | IST. 10.08 |

| | Viscosity (mPa.s) | Cement based | | Gypsum based | |
|----------------------|------------------------|---|--|---|---|
| | | Plasters | Smooth finishes | Plasters | Smooth finishes |
| PENTA EC 18 | 18000 - 25000 |  |  |  |  |
| PENTA EC 25 M | 20000 - 25000 |  |  |  |  |
| PENTA EC 25 S | 20000 - 25000 |  |  |  |  |
| PENTA EC 33 | 24000 - 30000 |  |  |  |  |

(Brookfield RV solution 2 %)



possible use



Recommended use

DOSAGE

The recommended dosage of **Penta EC for plasters** in cement and lime-based plasters is 0.05-0.15% and in gypsum-based plasters 0.15 ÷ 0.25% of the dry mixture, depending on the expected final features.

For other uses, dosages may be different from indicated, but it is advisable to carry out preliminary tests on the specific mixtures, including any other additives.

STORAGE AND VALIDITY

Penta EC for plasters has 12 months validity from delivery note issue date, if they are 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.

PRECAUTIONS

Penta EC for plasters are normally harmless in contact with skin and easily removable with water and soap. In case of contact with eyes it causes them to redden, but the trouble disappears by washing them with running water.

Inhalation can cause a slight irritation of the first part of the respiratory tract, so it is advisable to use dust masks.

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

Dry-clean the surfaces avoiding the use of water: they make surfaces slimy and dangerous

PACKAGING

25-kilo 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.