

# PENTA ECP 20

## Cellulose ethers with delayed solubility

Technical Data Sheet October 2015

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**DESCRIPTION** **PENTA ECP 20** is medium-viscosity cellulose ether with delayed solubility in neutral or slightly acid systems. It solubilizes quite quickly in alkali systems while increasing the viscosity of the system. It is suitable for stabilizing resin-based systems in aqueous dispersion and increasing their viscosity.

**USE** The solubility of **Penta ECP 20** in both neutral and acid systems or in dispersion in a polar solvent makes it suitable for the mixtures containing latex and resins in dispersion to facilitate the mixing and the homogenization of the other components. The viscosity produced by **Penta ECP 20** after alkalization allows obtaining pasty and thixotropic mixtures, which keep their characteristics for a long time. The products obtained with **Penta ECP 20** have an excellent water retention as well as an excellent plasticity and yield. The addition of **Penta ECP 20** to alkali solutions, even under fast stirring, may cause the formation of lumps that require more time to disperse.

	Data	Method
	Methyl hydroxypropyl cellulose	
<b>TECHNICAL DATA</b>	<b>State:</b>	Powder Visual
	<b>Colour:</b>	White - beige Visual
	<b>Bulk density:</b>	Max. 0.550 ÷ 0.100 kg/dm <sup>3</sup> IST. 10.07
	<b>Granulometry:</b>	Min. 85.0% < 0.400 mm IST. 10.09
	<b>Humidity:</b>	Max. 4.0% IST. 10.04
	<b>Water solubility:</b>	Totally soluble IST. 10.21

	Data	Method
Features of the aqueous solution	Hydrogen-ion concentration (pH):	7.0 ± 0.1 IST. 10.05
	Viscosity at 20°C:	Ar. 20000 mPa.s (sol. 2%, Brookfield LV) IST. 10.30
	Surface activity:	Weak

**DOSAGE**

The normal dosage of **Penta ECP 20** in water paints and in cement-based mixtures is normally 0.1 - 1.0% of the total weigh of the finished product. However, it is advisable to carry out preliminary tests on the specific mixtures in order to establish the optimal dosage in accordance with the required features.

**STORAGE AND VALIDITY**

If it is stored in a dry place and in the original bags kept perfectly closed, **Penta ECP 20** has a 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 it causes a non-homogeneous distribution in the finished mixture.

It is therefore advisable to close the bags carefully after each collection.

**PRECAUTIONS**

**Penta ECP 20** is normally harmless by contact with the skin and by ingestion.

It is easily removable with water and soap.

While handling it, it is suggested to follow the normal procedures for powder substances; so it is advisable to use a dust mask.

In case of accidental loss, avoid the use of water, since it makes surfaces slimy and dangerous: please pick it up in the dry state and discharged it in an authorized 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.