



# PENTA EC 70

Cellulose ether

Technical Data Sheet October 2015

## DESCRIPTION

**PENTA EC 70** is cellulose ether quickly soluble in water both in a neutral and alkaline system.

It is particularly suitable for the preparation of cement based adhesives, but it is successfully used also to adjust the thixotropy of cement/lime based and gypsum based plasters. In tile adhesives it enlarges the film-formation time.

## USE

The quick development of viscosity of **PENTA EC 70** makes it suitable for the formulation of cement-based tile adhesives and of all the mixtures requiring high thixotropy on vertical walls. Anyway, it is also used as a corrector of viscosity in the preparation of cement-based plasters and finishing mixtures, thanks to its quick solubility in water.

The high water retention of **PENTA EC 70** allows obtaining high-quality adhesives with an excellent adhesion even on low-absorbing tiles. Besides, it lengthens filming time and the time for placing the tiles.

It is particularly suitable for the formulations containing crushed aggregates, where it is necessary to improve the smooth running without reducing water retention.

**Penta EC 80** has an excellent behaviour also in finishing mixtures.

## TECHNICAL DATA

	Data	Method
<b>Chemical composition:</b>	Hydroxypropyl methylcellulose	
<b>State:</b>	Powder	Visivo
<b>Colour:</b>	Beige-white	Visivo
<b>Bulk density:</b>	0,400 ± 0,100 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 95% < 0,0300 mm	IST. 10.09
<b>Humidity:</b>	Max. 4,0%	IST. 10.04
<b>Water solubility:</b>	totally soluble	IST. 10.21
<b>Water retention :</b>	min. 65 % after 30 minutes	IST. 10.08

## Features of the

**Surface activity :** weak

## Water solution:

**Viscosity at 20° C :** 65.000 ÷ 80.000 mPa.s (solution 2% Brookfield RV )

Cement based				Gypsum based			
Plasters	Finishes	Adhesives	Masonry mortars	Plasters	Finishes	Putties	Adhesives
							

 Possible use     
  Recommended use

**DOSAGE**

The recommended dosage of **PENTA EC 70** in cement-based tile adhesives ranges between 0.05 and 0.5 % of the dry mixture, depending on the expected final characteristics.  
 When it is used for correcting the viscosity in plasters or finishing mixtures or for other purposes, it is advisable to carry out preliminary tests to assess the optimal dosage.

**STORAGE AND VALIDITY**

**PENTA EC 70** has 12 months validity from delivery note issue date, 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 bags carefully after each collection.

**PRECAUTIONS**

**PENTA EC 70** is 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 it must be picked up in the dry state and discharged in an authorised waste dump. Dry-clean the surfaces avoiding the use of water: it makes surfaces slimy and dangerous  
 For further information please refer to the Safety Data Sheet

**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.