

PENTA EC 4108

Modified cellulose ether for cement-based adhesives

Technical Data Sheet March 2026

DESCRIPTION

PENTA EC 4108 is a highly modified, quickly soluble cellulose ether.

USE

PENTA EC 4108 has been developed for formulations based on new-generation cements with low clinker content. It provides high water retention and excellent rheological control, ensuring good workability of the mixture without significantly affecting the cement's hydration kinetics.

Thanks to its versatility, **PENTA EC 4108** is a product that, depending on the dosage, can be used in a variety of applications. It is ideally suited for use in cementitious adhesive formulations, ensuring an excellent balance between water retention, rheology, and application performance, with excellent adhesion already within the first 24 hours.

It can also be used in vertical applications, where it helps improve stability and slip resistance.

TECHNICAL DATA

	Data	Method
Composition	Methylhydroxypropylcellulose	
State:	Powder	Visual
Colour:	Ivory white	Visual
Bulk density:	0.450 ± 0.100 g/cm ³	IST. 10.07
Granulometry:	Min. 90% < 0.180 mm	IST. 10.09
Humidity:	Max 4.00%	IST. 10.04
Water solubility:	Totally soluble	IST. 10.21
pH:	7,0 ÷ 8,0	IST. 10.05
Water retention:	min. 65% after 8 minutes	IST. 10.08
Brookfield RV viscosity 20°C, 2% solution	7000 - 12000 mPa.s	IST. 10.30
Surface activity:	Weak	

DOSAGE

The recommended dosage is between 0.25 and 0.50% of the total volume of the mortar.

Dosages other than those recommended may be used depending on requirements, subject to prior experimental determination.

STORAGE AND VALIDITY

Store in a cool, dry place. When kept in the original, tightly sealed packaging, the product has a shelf life of 12 months from the date on the shipping document. Make sure to reseal the bags tightly after each use.

PRECAUTIONS

Before use, please read the relevant safety data sheet.

PACKAGING

25 kg paper bags.

All the data stated in this technical sheet are based on the best of our knowledge and experience. 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.