

PENTA EC 4130

Highly modified cellulose ether for cement-based adhesives

Technical Data Sheet January 2026

DESCRIPTION Penta EC 4130 is a highly modified, quickly soluble cellulose ether.

USE Penta EC 4130 is specifically developed for use in cement-based adhesives formulated with both silica sand and carbonate aggregates, suitable for classes C1 and C2E. It guarantees high water retention even when applied at high temperatures, helping to maintain constant hydration of the cement and rheological stability of the mixture. The additive allows for a prolonged open time (class E), improving workability and stability during application. The final formulation provides excellent initial and final adhesion strengths to traditional cementitious substrates, ensuring high performance and compliance with normative requirements for both indoor and outdoor applications.

TECHNICAL DATA	Data	Method
Composition:	hydroxypropyl methylcellulose	
State:	Powder	Visual
Colour:	Ivory white	Visual
Bulk density:	0.550 ± 0.100 kg/dm ³	IST. 10.07
Granulometry:	Min. 90% < 0.180 mm	IST. 10.09
Humidity:	Max. 4%	IST. 10.04
Water solubility:	Totally soluble	IST. 10.21
Water retention:	> 60% after 30 minutes	IST. 10.08
Brookfield viscosity at 20 °C (2% solution, Brookfield RV)	35.000 – 40.000 mPa.s (Spindle 6, 15 RPM)	IST. 10.30
pH (solution 2%):	7,0 ÷ 8,0	IST. 10.09
Surface activity:	Weak	IST. 10.09

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. In original packaging that is perfectly sealed, it has a shelf life of 12 months from the date of the transport document. Carefully close the bags after each use.

PRECAUTIONS Before use, it is recommended that you read the product information 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.