



# PENTA EC 100 V

## Succinic polymer for low-viscosity systems

Technical Data Sheet December 2015

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### DESCRIPTION

**Penta EC 100 V** is a low-viscosity succinic polymer, which can be easily dissolved in water in both acid and alkali system. It improves the flow and the easiness of application of cement-based mixtures and it avoids segregation in self-levelling systems.

It is particularly suitable to stabilize resin-based systems in aqueous dispersion.

### FEATURES

The fast development of viscosity of **Penta EC 100 V** in aqueous systems allows producing all kinds of paints.

Its use is suggested in the formulation of low-thickness self-levelling systems and/or lactic-based self-levelling systems.

**Penta EC 100 V** improves the stability of the solid particles in dispersion, thus avoiding their agglomeration during long storages.

Its low viscosity allows developing fluid mortars free from segregation and water-based paints easy to apply both by brush and by roller with an excellent yield.

### TECHNICAL DATA

	Data	Method
<b>State:</b>	Powder	Visual
<b>Colour:</b>	Ivory white	Visual
<b>Bulk density:</b>	0.800 ± 0.050 kg/dm <sup>3</sup>	IST. 10.07
<b>Granulometry:</b>	Min. 95.0% < 0.300 mm	IST. 10.09
<b>Humidity</b>	Max. 13.0%	IST. 10.04
<b>Water solubility:</b>	Totally soluble	IST. 10.21

Characteristics of the aqueous solution	Surface activity:	Weak
	pH at 20°C (sol. 0.2%):	8.0 ± 1.0
	Viscosity at 20°C:	Ar. 3200 mPa.s (sol. 0.3% Brookfield LV)

**DOSAGE** The suggested dosage of **Penta EC 100 V** is 0.002 – 0.1% on the dry mixture, depending on the desired final characteristics. However, it is suggested performing preventive tests on the mixture to use in order to find the best dosage for the specific needs.

**STORAGE AND VALIDITY** If it is stored in a dry place and in the original bags kept perfectly closed, **Penta EC 100 V** has a 12 months validity starting from the date on the delivery note. Should moisture be absorbed by the product, it 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 EC 100 V** is normally harmless in contact with skin and it is easily removable with water and soap. In contact with the eyes, it cause them to redden, but the problem disappears by washing them with running water. Its inhalation can cause an irritation of the first part of the respiratory tract, so it is advisable to use a dust mask. 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, if possible, without using water, since it makes surfaces slippery and dangerous. For further information please read the security data sheet.

**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.

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