



PENTAGEL

I 150 and I 150 C

Additives for dehumidifying plasters

Technical Data Sheet September 2015

DESCRIPTION	<p>Pentagel I 150 is an additive in powder form for the preparation of premixed dehumidifying plasters. Pentagel I 150 C is the version for hydraulic lime or hydrated lime based plasters. In the hardened state they give the plasters characteristics of anti-efflorescence and good breathability.</p>
FEATURES	<p>Thanks to their special composition, Pentagel I 150 and I 150 C allow the preparation of mortars with not less than 25% of air bubbles and capillaries so that rising water only migrates in the form of vapour.</p> <p>As a matter of fact, when the water gets near the plaster, after going through the support with its load of soluble salts, it finds high porosity and cannot keep going on by capillary rising, so it evaporates while depositing the salts near the support-plaster interface.</p> <p>The result is that the salts of efflorescence (commonly called saltpetre) and the spots of water disappear from the surface of the plaster. When lot of salts are present on the plastering surface it is advisable pretreating the surface to plaster with Pentaproof LB.</p> <p>The action of Pentaproof LB prevents the salts from concentrating on the support-plaster interface giving a double advantage: a prolongation of the life of the dehumidifying plaster and a more comfortable temperature of the contact surface.</p> <p>Besides, differently from many "ready-to-use" products on the market, Pentagel I 150 and I 150 C allow obtaining easy-to-apply fresh mortars with excellent plasticity and good adhesiveness of the plaster to the support with very low waste.</p>
USE	<p>In order to better exploit the features that Pentagel I 150 and I 150 C give to plasters it is important to employ clean and sound sands, to act with a correct grain size distribution curve (which will possibly have a low content in fines, e.g. not higher than 40% including binders), and to use the right dosing of binders depending on the expected final strength.</p>

	Data		Method
	PENTAGEL I 150	PENTAGEL I 150 C	
TECHNICAL DATA			
State:	Powder	Powder	Visual
Colour:	Ivory-white	Ivory-white	Visual
Bulk Density:	0,700±0,100 kg/dm ³	0,700±0,100 kg/dm ³	IST. 10.07
Granulometry:	Min.94%<0,180mm	Min.94%<0,300mm	IST. 10.09
Humidity :	Max. 4,0%		IST. 10.04
Water solubility:	Partially soluble		IST. 10.21
Air development:	Min. 25% (after 10' mixing in concrete mixer at 25 ÷ 28 rpm)		

DOSAGE

The recommended dosage of **Pentagel I 150** is 1.5% of the weight of the dry mixture.
Different dosages can be used, depending on the expected results, after carrying out preliminary tests.

STORAGE AND VALIDITY

Pentagel I 150 has 12-month validity beginning with delivery, 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

Pentagel I 150 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.
Never use water: it makes surfaces slimy and dangerous.

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.