



LEGARAPID 2H

Setting and hardening accelerator for Portland cement-based mixtures

Technical Data Sheet, October 2015

DESCRIPTION

Legarapid 2H is an accelerating agent in powder form, consisting of a mixture of organic and inorganic salts which allows to modify the setting and the hardening time of all the mixtures containing Portland cement. The acceleration of setting time is proportional to the dosage.

FEATURES

Legarapid 2H acts on both the setting and the hardening time by accelerating the formation of aluminates.

According to the dosage and to the composition of the mixture, it is possible to get values of setting times ranging from a few minutes up to 45 minutes with a very quick strength development (2-3 N/mm² after 60 minutes from the mixing).

Contrary to what normally happens with such strong accelerators, **Legarapid 2H** affects the final mechanical strength only partially, thus reducing the thickness of application particularly in consolidating mixtures.

For this reasons, the dosage of **Legarapid 2H** has to be carefully controlled every time, according to specific needs and to the composition of the mixture.

It must also be kept in mind that higher the dosage, more rapid are the setting times and the development of mechanical strengths.

The workability time of the mixtures can be modified with the specific retarders in powder form **Pentatard AC**.

USE

Legarapid 2H is normally used for adjusting the setting and the hardening time of all mixtures containing Portland and/or calcium aluminate cement, such as quick cement, quick mortars, controlled hardening mortars, injection mortars, grouts, quick adhesives, cellular cements for the production of bricks and walls, etc.

It must be added to the mixer in the middle of the loading of the other components. If added to wet mixtures it has be previously dispersed in the dry state, preferably in the mixtures of binders.

For concrete coaling, it must be dry mixed with the other components, and then mixed with water in the last tract of the nozzle. Otherwise, it must be added in the dry state to the mixture of the other wet components in the last tract of the nozzle (dry system).

	Data	Method
TECHNICAL DATA	State:	Powder
	Colour:	Beige
	Bulk Density:	$0.850 \pm 0.050 \text{ kg/dm}^3$
	Granulometry	Min. 97% < 0.180 mm
	Humidity:	Max. 3%

DOSAGE The dosage of **Legarapid 2H** normally ranges between 10 and 15% of the weight of the cement, depending on the desired effect.

Different dosages can be used according to the needs, after carrying out preliminary tests

STORAGE AND VALIDITY **Legarapid 2H** has a 6-months validity starting from the delivery date, if stored in a dry place and in the original bags kept perfectly closed.

Should moisture be absorbed by the product can affect its efficaciousness.

It is therefore advisable to close bags carefully after each collection.

PRECAUTIONS **Legarapid 2H** can cause irritation in contact with skin.

It is easily removable with water and soap from any surface.

Inhalation causes the irritation of the first part of the respiratory tract, a trouble that disappears immediately by stopping handling. It is therefore advisable to use a dust mask and not to disperse in the environment.

In case of accidental loss it must be picked up in the dry state and discharged in an authorised waste dump.

For additional info please refer to the safety data sheet.

PACKAGING 25-kgs 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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