

PENTAMIX EX 3

Shrinkage reducing agent

Technical Data Sheet August 2012

DESCRIPTION Pentamix EX 3 is a shrinkage reducing admixture for cementitious dry mortar and

grout systems.

FEATURESPentamix EX 3 reduces the material shrinkage both in the plastic and hardening

stages. It acts chemically to prevent the material to shrink by altering the conditions for the shrinkage mechanism. It does not show any expansive action.

The product is a white ready-to-use powder made of a cyclo aliphatic alcohol

supported on silica.

Pentamix EX 3 allows a reduction of the total shrinkage up to 50% after 28 days and 30% at the age of 1 year. Cracking of the material will subsequently be reduced

significantly.

USE Pentamix EX 3 is suitable for the preparation of premixed dry mortars and grouts

based on ordinary Portland cement as well as systems containing alumina cement. **Pentamix EX 3** is usually used both in all admixtures that need a reduction of the total shrinkage which do not want the introduction of any soluble saline substance

and where the content of water is high.

Pentamix EX 3 is compatible with most existing accelerators, retarders,

superplasticizers as the Peramin range and with all redispersible powders.

TECHNICAL DATA Form: Hygroscopic powder

Colour: White

Granulometry: Min. $85\% < 180 \mu m$

Humidity: Max. 5%

Density: $0.200 - 0.350 \text{ kg/dm}^3$

pH^{20°C}: 8.0 ± 1.0 Equivalent Na₂O: < 1%Chloride content: < 0.05%

Water solubility: Partially soluble

Storage: In a sheltered and dry place

DOSAGE

The recommended dosage of **Pentamix EX 3** is 0.3-0.5 %. The product may cause a slight retardation on yhe settiing time at higher dosages or low temperature. Different dosages can be used, depending on the expected results, after carrying out preliminary tests.

STORAGE AND VALIDITY

Pentamix EX 3 has 12-month validity beginning with delivery, if it is stored in a dry place and in the original bags kept perfectly closed.

Pentamix EX 3 is an hygroscopic powder, so it has to be stored in a dry place and It is advisable to close bags carefully after each collection.

PRECAUTIONS

Pentamix EX 3 is irritant by contact with skin and by ingestion.

If inhalated it can cause a slight irritation of the respiratory tract, 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.

PACKING

20-kilo polythene-paper bags 500 kilo big 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.