

OSPERSE D73

Set Retarding Additive

PRODUCT DESCRIPTION

Osperse D73 is a specially formulated set retarding additive designed as a replacement for Tartaric Acid in cement and gypsum based systems.

Osperse D73 is based on a blend of polyhydroxy carboxylic acid, it is a fine free flowing powder designed to improve dispersion in dry bagged cementitious and gypsum based systems.

APPLICATIONS

Osperse D73 slows down the setting and early stiffening of cement and gypsum based systems, producing a prolonged working time by slowing down the initial reaction between hydraulic binders and water. Retarders work by reducing the rate of water penetration to the cement and slowing down the growth of hydrated products.

Osperse D73 is used to control and extend the setting time of cement and gypsum based materials. It is especially recommended for use in systems based on High Alumina Cement (HAC) and blends of CEM I and HAC as a replacement for Tartaric acid.

BENEFITS

- Straight replacement for Tartaric Acid retarders without compromising performance.
- Increased workability time of cementitious and gypsum systems by controlling set.
- Hot weather issues reduced.
- Agglomeration during storage is minimised with free flowing powder. Sieving not required prior to blending with cement, aggregates etc.

PROPERTIES

Nature:	Powder
Appearance:	White
Density:	approx. 0.985 g/cm ³

ADDITION RATES

Dosage rates will be dependant on mix design, process, types of materials and the desired effect but typically:

0.10% - 0.20% by weight of cement

0.15% - 0.20% by weight of gypsum

STANDARDS

Osperse D73 is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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COMPATIBILITY

Osperse D73 is compatible with all cement types and hydraulic binders, including ground granulated blast furnace slag, pulverised fly ash, hydrated lime and gypsum.

Osperse D73 is compatible with all Ocrete admixtures, but should be added to the mix separately.

STORAGE

Osperse D73 is a pressure sensitive powder and should be stored in cool, dry conditions. Unopened bags, if correctly stored, have a minimum shelf life of one year.

HANDLING

Please refer to the **Osperse D73** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

PACKAGING

Osperse D73 is supplied in a 15kg sack with inner polyethylene liner.

COMPATIBILITY

Method of Use

Osperse D73 should be added directly to the batch materials and spread uniformly over the mix. Do not add directly to the mix water. A mixing time of at least 30 seconds is recommended after the addition of the admixture.

Addition Level

The natural variations in cements, hydraulic binders, gypsum, aggregates and ambient temperature all affect the addition level required for a given workability and retardation period. Trials should be carried out to determine optimum dosage levels. As an initial guide, an addition level of 0.10% - 0.20% by weight of cement and 0.15% by weight of gypsum is recommended. This may have to be adjusted depending on the retardation period required, raw materials and application.

High levels of **Osperse D73** will result in increased set retardation. The amount of retardation will depend upon the actual level, temperature, cement type and content. Over-retarded hydraulic systems, if properly cured, will not be adversely affected after the set occurs with strength and durability unaffected. Excessive addition levels could permanently prevent the hydration reaction.

Please consult Ocrete Technical department for advice on additive selection.

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Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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