

OSPERSE HYDROMAX

Dry Silo Mortar Additive

Description

Osperse Hydromax is a specially formulated, polysaccharide based, powdered water retaining additive for use in masonry mortars. **Osperse Hydromax** is a fine, free-flowing powder that has been specifically formulated to improve cohesiveness and water retention properties of dry silo mortars for use in bricklaying and rendering applications.

Osperse Hydromax has been specifically formulated to prevent the resultant mortar becoming too sticky and unusable, as can be a problem with some commercially available water retainers. Due to the “non-sticky” nature of **Osperse Hydromax**, the dosage rate can be increased to produce very high levels of water retention without the mortar quality being affected.

Action

Osperse Hydromax dramatically increases the water retention properties of the silo mortar. This increased water retention prevents water being rapidly sucked out of the mortar when used with highly absorbent bricks and blocks. Without the use of **Osperse Hydromax**, a standard mortar can lose workability within minutes when applied between absorbent bricks and blocks. Use of **Osperse Hydromax** in DSM mortars will allow an additional 12-15% extra water to be added to the mortar without affecting flow and workability. The additional water is crucial as it helps combat the high absorbance of the bricks and blocks and allows the mortar to be pointed at much longer time intervals, allowing the bricklayer to be more productive as they can lay more courses without having to have concerns about having to point the mortar before it dries out too quickly.

Properties

Nature	Powder
Colour	Off White
Bulk Density	0.590 g/cm ³
pH	-

Addition Rates

The natural variations in cements, hydraulic binders, and aggregates all affect the addition level required to achieve the required water retention values and working time.

Trials should be carried out to determine optimum dosage levels.

(0.5-1.0 kg per tonne of dry mortar is recommended)

Benefits in Concrete

- Improves cohesion of mortar
- Reduces “mortar stickiness on the trowel” even at high dosages, when compared against standard water retainers.
- Reduces bleed
- Improves water retention to allow >90% values for EN934 test.
- Allows greater air content stability

Standards

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



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Compatibility

Osperse Hydromax is compatible with all OPC and hydraulic binders, including ground granulated blast furnace slag, pulverised fly ash and hydrated lime.

Osperse Hydromax is highly recommended for use with UNGER's range of UFAPORE powdered air entraining agents

Storage

Osperse Hydromax is a moisture sensitive powder and should be stored in cool, dry conditions. Sealed containers, if correctly stored, have a minimum shelf life of one year.

Handling

Avoid contact with skin and eyes. Protective goggles and gloves should be worn at all times.

Packaging

Osperse Hydromax is supplied in 600kg bulk bag.

Notes

Osperse Hydromax should be added to the mixer after the addition of sand and cement to provide adequate dispersion in the finished product.

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Addition level of 0.5-1.0 kg per tonne of dry mortar is recommended.

Please consult Oscrete Technical department for advice on additive selection.

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PDS 7916 Rev 00 03/08/2016

Disclaimer

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