

Water Resisting Admixture

Description

Sigma HS is a fine off white free flowing powder blend based on selected long chain fatty acid salts, a natural polymeric resin plasticiser and inert pore fillers. **Sigma HS** is also a particularly useful admixture for the control of efflorescence by reducing moisture movement within the concrete. **Sigma HS** has no significant effect upon setting times or the strength of concrete but does impart slight plasticising properties for improved workability with minimal air entrainment.

Applications

The high activity of **Sigma HS** makes it ideally suited for use in semi-dry and dry mixes in the production of cast and reconstructed stone, concrete masonry and paving where minimum water absorption is essential. **Sigma HS** is ideally suited for decorative products where good colour and good efflorescence control are of greatest importance.

Benefits in Concrete

- Reduced efflorescence
- Reduced water absorption
- Good dispersion
- Neutral colour

Properties

Nature	Powder
Colour	White
Specific Gravity	0.600 g/cm ³
pH	-
Chloride Content	<0.10%
Na ₂ O equivalent	<1.00%

Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

1000gms -3000 gms per 100 kg cement
(1.00% - 3.00% by weight of cement)

The correct dosage for the material package used should be determined by laboratory trials, please contact the OSCRETE Technical department for further advice.

Standards

Sigma HS complies with the requirements of BS EN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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Compatibility

Sigma HS is compatible with all types of EN 197 cement systems.

Sigma HS should not be pre-mixed with other admixtures and should be batched separately.

Storage

Sigma HS should be stored undercover, protected from extreme temperatures and stored unopened within the range 5°C and 30°C. Moisture ingress will cause the product to harden.

Handling

Please refer to the **Sigma HS** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

20kg bags, 500 kg per pallet, shrink wrapped.

Notes

Sigma HS should be added neat, immediately after the water or at the end of the mixing process and not directly onto the cement. A mixing time of at least 30 seconds is recommended after the addition of the admixture.

Sigma HS water repellent may increase the air content of wet concrete.

Please consult the OSCRETE Technical Department for advice on admixture selection.

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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