

SIGMA 190

Masonry Block Water Reducer

Description

Sigma 190 is an economical mid range water reducer based upon modified lignosulphonate, it is designed to improve the workability of the concrete with minimal effects on other properties. **Sigma 190** if used correctly can achieve water reductions of up to 18%.

Applications

Sigma 190 can be used to reduce the water content in dry/semi-dry mixes which in turn will increase the density of the finished product leading to higher strengths.

Benefits in Concrete

- Increased early and final strength
- Reduced shrinkage
- Reduced permeability
- Increased density
- Reduced segregation and bleeding

Properties

Nature	Liquid
Colour	Dark Brown
Specific Gravity	1.10 g/cm ³
pH	6.50
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:

200mls - 600mls per 100 kg cement
(0.20% - 0.60% 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 190 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 190 is compatible with all types of EN 197 cement systems.

Sigma 190 should not be pre-mixed with other admixtures and should be batched separately.

Storage

Sigma 190 should be stored undercover and protected from extreme temperatures, if stored unopened within the range 5°C and 30°C the product will have a minimum shelf life of 12 months.

Handling

Please refer to the **Sigma 190** Material Safety Data Sheet but in line with normal handling procedures, personal protective equipment should be worn.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

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.

Notes

Sigma 190 should be added with 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.

If frozen **Sigma 190** may be used after thawing slowly at room temperature followed by intensive remixing.

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

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