

ALPHAFLOW 410

High Range Superplasticiser

Description

Alphaflow 410 is a new generation superplasticiser based on a modified synthetic carboxylated polymer. It has been designed to impart exceptional performance in wet cast concrete where strength and durability are important. **Alphaflow 410** if correctly dosed will allow water reductions of up to 30%, resulting in increased strengths at both early and long term ages.

Applications

Alphaflow 410 is particularly suitable for precast and structural concrete where high workability, high early age strength and increased durability are essential.

Benefits in Concrete

- High workability
- Increased strengths
- Reduced setting times
- Low water cement ratios
- Self compacting concrete
- Reduced noise pollution
- Low dosage
- Reduced equipment wear

Properties

Nature	Liquid
Colour	Amber
Specific Gravity	1.04g/cm ³
pH	6.5
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:

200 mls - 1100 mls per 100 kg cement
(0.20% - 1.10% by weight of cement)

Standards

Alphaflow 410 conforms to the requirements of BSEN 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

Alphaflow 410 is compatible with all Portland cement systems, including GGBS, Pfa and limestone blends.

Alphaflow 410 is compatible with all Oscrete admixtures, but should be added to the mix separately.

Storage

Alphaflow 410 should be protected from extreme temperatures and if stored unopened within the range 5°C - 30°C will have a minimum shelf life of 12 months.

Handling

Alphaflow 410 is a non hazardous product but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

Packaging

200 litre drums, 1000 litre IBCs and bulk deliveries.

Notes

Alphaflow 410 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 **Alphaflow 410** may be used after thawing slowly at room temperature followed by intensive remixing.

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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