

ALPHAFLOW 420

High Range Superplasticiser

Description

Alphaflow 420 is a new generation superplasticiser based on a modified synthetic carboxylated polymer. **Alphaflow 420** has been designed for self compacting concrete where exceptional performance is needed to produce low water/cement ratios and homogeneous concrete. **Alphaflow 420** if correctly dosed will allow high water reductions and increased early age strength.

Applications

Alphaflow 420 is particularly suitable for precast and structural concrete where high workability, high early age strength and increased durability are essential. Due to the high water reductions achievable with **Alphaflow 420**, self compacting concrete or high flowing concrete can be designed without any deterioration of performance.

Benefits in Concrete

- High workability
- Increased early age strengths
- Low water cement ratios
- Increased production
- Reduced noise pollution
- Low dosage
- Reduced equipment wear

Properties

Nature	Liquid
Colour	Amber
Specific Gravity	1.06 g/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:

200mls - 1100mls per 100 kg cement
(0.2% - 1.10% 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

Alphaflow 420 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 420 is compatible with all types of EN 197 cement systems.

Alphaflow 420 should not be pre-mixed with other admixtures and should be batched separately.

Storage

Alphaflow 420 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 **Alphaflow 420** 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.

Notes

Alphaflow 420 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 420** 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.

OSCRETE is a division of Christeyns UK Ltd.
Rutland Street
Bradford
West Yorkshire
BD4 7EA
United Kingdom

Telephone: +44 (0)1274 393286

Fax: +44 (0)1274 309143

e-mail: info@oscrete.co.uk

Website: www.oscrete.co.uk

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