

ALPHAFLOW 420

High Range Superplasticiser

PRODUCT DESCRIPTION

Alphaflow 420 is a new generation superplasticiser based on a modified synthetic carboxylated polymer.

Alphaflow 420 has been designed to produce 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 in performance.

BENEFITS

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

PROPERTIES

Nature:	Liquid
Appearance:	Clear/Opaque
Specific Gravity: (20°C)	1.06 g/cm ³
pH:	6.5
Chloride Content:	< 0.10
Alkali Content (Na ₂ O):	< 1.00

ADDITION RATES

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

200mls—1200mls per 100kg cement

(0.2% - 1.2% 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 BS EN 934-2 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



ALPHAFLOW 420

High Range Superplasticiser

COMPATIBILITY

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

Alphaflow 420 should not be premixed with other admixtures and should be batched separately.

STORAGE

Alphaflow 420 should be protected from extreme temperature, frost and direct sunlight, the product has 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

1000 litre IBC's 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 mixing.

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 UK Limited
Rutland Street
Bradford
West Yorkshire
BD4 7EA
United Kingdom

Telephone: +44 (0)1274 086299
E-mail: technical@oscrete.com
Website: www.oscrete.com

PDS 7536 Rev 07 02/01/2024

