

# 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 ready-mixed and precast 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	1.05g/cm <sup>3</sup>
pH	5.0
Chloride Content	<0.10%
Na <sub>2</sub> 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)

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 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 types of EN 197 cement systems.

**Alphaflow 410** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Alphaflow 410** 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 410** 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 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.

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