

OPTIMIZE ACCEL 600

High Range Accelerating Superplasticiser

PRODUCT DESCRIPTION

Optimize Accel 600 is an accelerated superplasticiser based on the latest generation of modified synthetic carboxylated polymer along with a non-chloride accelerating system. **Optimize Accel 600** has been engineered specifically for precast or self-compacting concrete where exceptional performance is needed to produce robust, very low water/cement ratio concrete with enhanced rheology.

Optimize Accel 600 if correctly dosed will allow high water reductions and increased early age strength.

APPLICATIONS

Optimize Accel 600 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 **Optimize Accel 600**, self compacting concrete or high flowing concrete can be designed using BS 8500:2023 cement types while minimising any deterioration in performance, enabling the production of lower eCO₂ concretes.

BENEFITS

- Ability to increase SCM usage.
- High early age strength development.
- Improved cold weather strength development.
- Very low water cement ratios.
- Low viscosity concrete.
- Shorter striking times.
- Reduced shrinkage.
- Flexible dosage.

PROPERTIES

Nature:	Liquid
Appearance:	Clear/Opaque
Specific Gravity: (20°C)	1.11 g/cm ³
pH:	12.0
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:

500mls—1200mls per 100kg cement

(0.5% - 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

Optimize Accel 600 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.



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COMPATIBILITY

Optimize Accel 600 is compatible with all types of EN 197 cement systems.

Optimize Accel 600 should not be premixed with other admixtures and should be batched separately.

STORAGE

Optimize Accel 600 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 **Optimize Accel 600** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

PACKAGING

200 litre drums, 1000 litre IBC's and bulk deliveries.

NOTES

Optimize Accel 600 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 **Optimize Accel 600** 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.

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