

# OPTIMIZE ACCEL 610

## High Range Accelerating Superplasticiser

### PRODUCT DESCRIPTION

**Optimize Accel 610** is an accelerated superplasticiser based on the latest generation of modified synthetic carboxylated polymer along with a non-chloride accelerating system. **Optimize Accel 610** has been specifically engineered for precast or self-compacting concrete where exceptional performance is needed to produce robust, very low water/cement ratio concrete.

**Optimize Accel 610** if correctly dosed will allow high water reductions and increased early age strength.

### APPLICATIONS

**Optimize Accel 610** 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 610**, 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 eCO<sub>2</sub> concretes.

### BENEFITS

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

### PROPERTIES

Nature:	Liquid
Appearance:	Clear/Opaque
Specific Gravity: (20°C)	1.11 g/cm <sup>3</sup>
pH:	12.0
Chloride Content:	< 0.10
Alkali Content (Na <sub>2</sub> 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 610** 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 610** is compatible with all types of EN 197 cement systems.

**Optimize Accel 610** should not be premixed with other admixtures and should be batched separately.

### STORAGE

**Optimize Accel 610** 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 610** 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 610** 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 610** may be used after thawing, slowly at room temperature followed by intensive mixing.

Please consult the OSCRETE technical department for advice on admixture selection.

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