

# OPTOMIX 460

## High Range Slump Retention Superplasticiser

### Description

**Optomix 460** is a new generation slump retention superplasticiser based on a modified synthetic carboxylated polymers along with carefully selected synergistic materials, formulated to provide optimum performance in all classes of concrete. **Optomix 460** if correctly dosed will allow water reductions of between 12 to 30% whilst minimising workability loss.

### Applications

**Optomix 460** is particularly suitable for ready-mixed concrete where water reduction and slump retention are essential. The use of **Optomix 460** in difficult or complicated aggregate combinations and cement blends can be highly beneficial.

### Benefits in Concrete

- Very high workability retention
- Increased strengths
- Low water cement ratios
- Cost effective
- Flexible dosage

### Properties

Nature	Liquid
Colour	Amber
Specific Gravity	1.06 g/cm <sup>3</sup>
pH	4.50
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:

200mls - 1200mls per 100 kg cement  
(0.2% - 1.20% 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

**Optomix 460** is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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### Compatibility

**Optomix 460** is compatible with all types of EN 197 cement systems.

**Optomix 460** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Optomix 460** 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 **Optomix 460** 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

**Optomix 460** 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 **Optomix460** 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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