

# OPTOMIX 100

## Water Reducing Plasticiser

### Description

**Optomix 100** is an economical normal range water reducer based upon modified lignosulphonate. It is designed to improve the workability of concrete with minimal effects on other properties. **Optomix 100** if used correctly can achieve water reductions of up to 12%.

### Applications

**Optomix 100** is used to improve the workability of the concrete if the water content is maintained resulting in minimal effect on strength. If the water content is reduced the flow can be maintained and a significant increase in strength can be achieved.

### Benefits in Concrete

- Increased early and final strengths
- Reduced shrinkage
- Reduced permeability
- Increased density
- Reduced segregation and bleeding
- Flexible addition rates

### Properties

Nature	Liquid
Colour	Dark Brown
Specific Gravity	1.11 g/cm <sup>3</sup>
pH	6.50
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 - 800mls per 100 kg cement  
(0.20% - 0.80% 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 100** complies with 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

**Optomix 100** is compatible with all types of EN 197 cement systems.

**Optomix 100** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Optomix 100** 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 100** 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 100** 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 **Optomix 100** may be used after thawing slowly at room temperature followed by intensive remixing.

Please consult the OSCRETE Technical Department for advice on admixture selection.

OSCRETE is a division of Christeyns UK Ltd.  
Rutland Street  
Bradford  
West Yorkshire  
BD4 7EA  
United Kingdom

Telephone: +44 (0)1274 393286

Fax: +44 (0)1274 309143

e-mail: [info@oscrete.co.uk](mailto:info@oscrete.co.uk)

Website: [www.oscrete.co.uk](http://www.oscrete.co.uk)

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