

# OPTOMIX 190

## Water Reducing Plasticiser

### PRODUCT DESCRIPTION

**Optomix 190** is an economical mid-range water reducer based upon blended modified lignosulphonates and polycarboxylates. It is designed to improve both the workability and strength of concrete with minimal effect on other properties. **Optomix 190** if used correctly can achieve water reductions of up to 18%.

### APPLICATIONS

**Optomix 190** is used to improve the workability of the concrete if the water cement ratio 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

- Increased early and final strengths.
- Good workability retention.
- Reduced shrinkage.
- Reduced permeability.
- Increased density.
- Reduced segregation & bleeding.
- Flexible addition rates.

### PROPERTIES

Nature:	Liquid
Appearance:	Dark Brown
Specific Gravity: (20°C)	1.10 g/cm <sup>3</sup>
pH:	6.5
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:

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 190** 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 190** is compatible with all types of EN197 cement systems.

**Optomix 190** should not be pre-mixed with other admixtures and should be batched separately.

### STORAGE

**Optomix 190** should be stored undercover and protected from extreme temperatures, if stored between the range 5°C to 30°C the product will have a minimum shelf life of 12 months.

### HANDLING

Please refer to the **Optomix 190** material safety data sheet but in line with normal handling procedures, personal protective equipment should be worn.

Refer to the Material Safety Data Sheet for full details.

### PACKAGING

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

### NOTES

**Optomix 190** 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 190** may be used after thawing slowly at room temperature followed by intensive remixing.

**Optomix 190** if overdosed will result in an increase in workability and set retardation. The amount of increase will depend on the actual overdose, the temperature and the materials used, care should be made when batching to dispense the correct addition.

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

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#### Disclaimer

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