

# OPTOMIX 170

## Water Reducing Air Entraining Plasticiser

### Description

**Optomix 170** is an economical normal range water reducer based upon modified lignosulphonate with carefully selected surfactants. It is designed to entrain controlled and stable quantities of air in concrete mixes, whilst providing all the benefits of a normal range water reducing plasticiser. **Optomix 170** if used correctly can achieve water reductions of up to 15%.

### Applications

**Optomix 170** is used in extruded concrete where concrete is formed as it is placed. When using **Optomix 170** in concrete at a 50 slump or higher a controlled amount of stable air will be entrained, in many cases the strength drop that occurs with air entrained concrete will be negated by the plasticising action of the admixture.

### Benefits in Concrete

- Increased resistance to freeze thaw cycles
- Water reductions up to 15%
- Improved surface finish
- Increases durability of concrete
- Reduced segregation and bleeding
- Less shrinkage



### Properties

Nature	Liquid
Colour	Dark Brown
Specific Gravity	1.15 g/cm <sup>3</sup>
pH	8.00
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:

300mls - 600mls per 100 kg cement  
(0.30% - 0.60% 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 170** is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



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### Compatibility

**Optomix 170** is compatible with all types of EN 197 cement systems.

**Optomix 170** should not be pre-mixed with other admixtures and should be batched separately.

### Storage

**Optomix 170** 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 170** 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 170** 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 170** may be used after thawing slowly at room temperature followed by intensive remixing.

**Optomix 170** when used in slumps higher than 50mm will entrain air, trial mixes will be needed to determine the amount of air per dose.

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

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