

# OPTOMIX FC

## Foaming Agent

### Description

**Optomix FC** is a highly concentrated foaming agent used for producing Controlled Low Strength Material (CLSM) and low density foam concrete. It can be added directly to the concrete or for extra performance added through foam generating equipment.

### Applications

**Optomix FC** is suitable for the following applications:

- Trench fill / Reinstatement
- Floor fill
- Unstable soil replacement
- Pipe bedding
- Void fill
- Culverts / Sewers
- Cellars / Basements
- Old storage vessels / Tanks
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### Benefits in Concrete

- Highly mobile material
- Entrain air up to 32% (neat)
- Reduced densities (foam machine)
- Increases yield

### Properties

Nature	Liquid
Colour	Clear Opaque
Specific Gravity	1.02 g/cm <sup>3</sup>
pH	>11.5
Chloride Content	<0.10%
Na <sub>2</sub> O equivalent	<1.50%

### Addition Rates

Dosage rates vary dependant on mix design, process, aggregate type and the desired effect but typically:

200mls - 1200mls per 100 kg cement  
(0.20% - 1.20% by weight of cement)\*

\* Added neat will give air contents of up to 32%, trials will need to be carried out to determine the actual dose. Low densities can be achieved by using the correct foam generating equipment.

When using foam generating equipment a solution of 4 litres of **Optomix FC** to 100 litres of water will make a 4% solution.

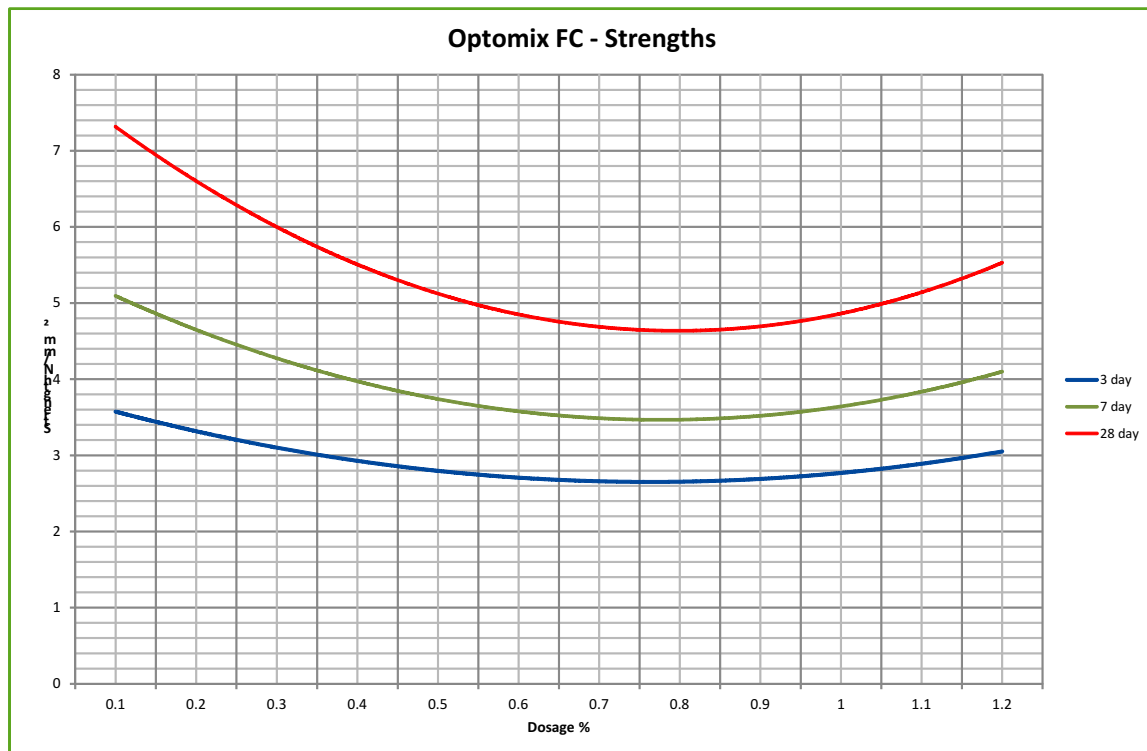
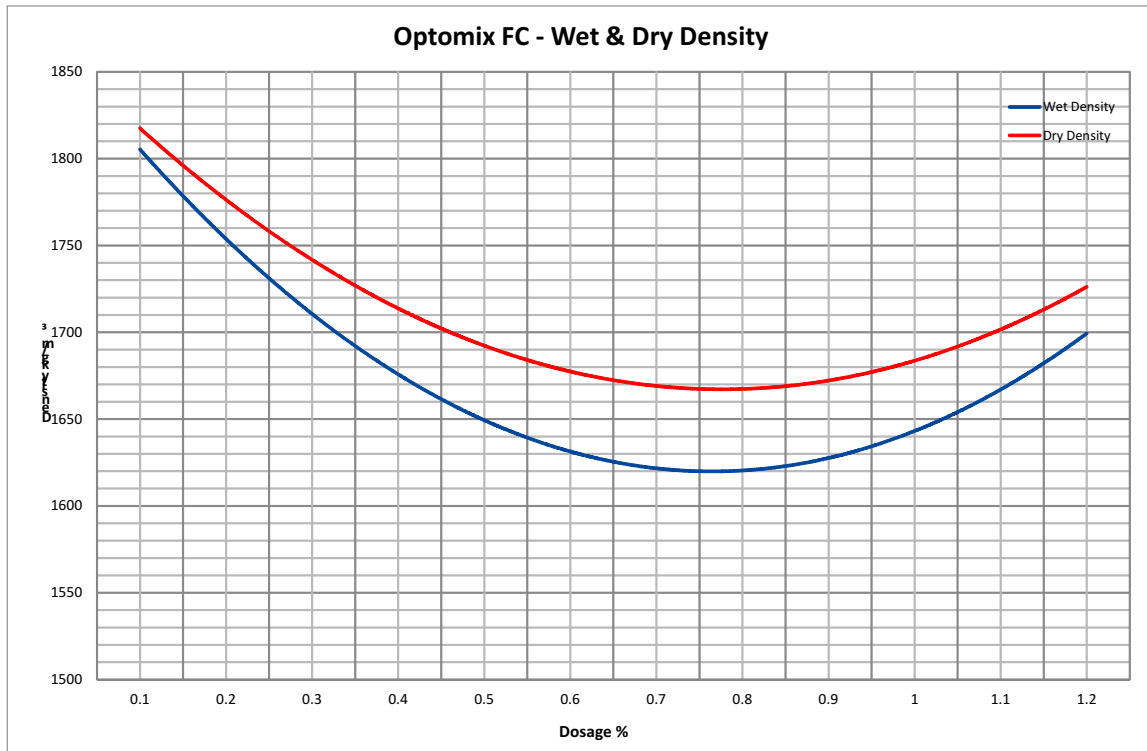
### Standards

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



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### Compatibility

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

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

### Storage

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

**Optomix FC** if overdosed will result in an increase in air content and a reduction of strength, severe overdosing will result in the concrete being not fit for purpose.

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

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