

# OPTOMIX A59

## Air Entraining Admixture

### PRODUCT DESCRIPTION

**Optomix A59** is a specially formulated blend of synthetic surface agents designed to entrain controlled and stable quantities of air in concrete and mortar mixes. **Optomix A59** is a multi use product providing benefits in ready-mixed concrete, mortar and screed.

### APPLICATIONS

**Optomix A59** is used to entrain controlled and stable quantities of air into concrete and mortar which in turn provides the user with improved resistance to freeze thaw conditions.

### BENEFITS in Concrete & Mortar

- Increased resistance to freeze-thaw cycles.
- Increases retention of mix water.
- Reduces segregation.
- Increases yield.

### STANDARDS

**Optomix A59** complies with the requirements of BS EN 934-3 and is produced in accordance with the ISO 9001 Quality Management Standard and the ISO 14001 Environmental Management Standard.



### PROPERTIES

Nature:	Liquid
Appearance:	Orange
Specific Gravity: (20°C)	1.01 g/cm <sup>3</sup>
pH:	10.5
Chloride Content:	< 0.10
Alkali Content (Na <sub>2</sub> O):	< 1.50

### ADDITION RATES

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

#### Mortar

100mls—150mls per 100kg cement

(0.10% - 0.15% by weight of cement)\*

(0.30% - 0.45% BWC for mixes containing lime)

- ◆ These doses will produce air contents of between 18.0—20.0% in mortar, trials to determine this fact must be carried out before starting any new contracts.

#### Concrete

50mls—100mls per 100kg cement

(0.050% - 0.10% by weight of cement)\*

\* These dosages will produce air contents of between 4.0—6.0% in medium workability concrete, trials to determine these facts must be carried out prior to starting any new contract.



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### COMPATIBILITY

**Optomix A59** is compatible with all types of EN 197 cement systems.

**Optomix A59** should not be premixed with other admixtures and should be batched separately.

### STORAGE

**Optomix A59** 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 A59** 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 litres drums, 1000 litre IBC's and bulk deliveries.

### NOTES

**Optomix A59** 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 A59** may be used after thawing slowly at room temperature followed by intensive remixing.

**Optomix A59** 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 OSCRETE technical department for advice on admixture selection.

#### Disclaimer

The physical properties quoted are typical, and should not be taken as a specification. The information supplied in our literature is based on data and experience and is given in good faith. Our policy is one of continuous research and development and we reserve the right to update this information at any time; customers should therefore ensure they have the latest issue. Whilst we guarantee the consistent high quality of our products, we have no control over the circumstances in which our materials are used, site conditions or the execution of the work and are therefore unable to accept any liability for any loss or damage which may arise as a result thereof. Materials are supplied in accordance with our standard conditions of sale.

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