

### Description

Oscrete A59 Air Entrainer is a specially formulated blend of synthetic surface active agents designed to entrain controlled and stable quantities of air in all mortars. It is designed to be used at lower dosage rates than conventional air entrainers.

### Application

Oscrete A59 Air Entrainer is used to entrain air in all mortars.

- Provides controlled and stable amounts of air in mortars
- Increases durability of all mortar mixes
- Plasticises mortar mixes

### Benefits

- Reduced dosage rate gives economic advantages
- Increased resistance to freeze/thaw cycles and de-icing salts
- Plasticising action improves workability, cohesion and trowelling properties.
- Increased retention of mix water reduces sand/water runs and honeycombing
- Improved mortar bond to masonry units
- Reduced segregation allows use of wider range of sand gradings
- Increased yield provides economic benefits

### Standards

Oscrete A59 Air Entrainer complies with the requirements of BS EN 934-2 : Table 5 for Air Entraining Admixtures.

All Christeyns products are produced in accordance with the ISO 9001:2000 Quality Management Standard and the ISO 14001 Environmental Management Standard.

### Mix Designs

Mortars should be designed to comply with the relevant tables of BS 5628.

### Addition Rates

The natural variations in cements and cement replacements, aggregate types and gradings, mixer type and mix workability, all affect the dosage required



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for a given air content. Trials should, therefore, be carried out to determine the correct addition rate for the mix design and materials to be used. As an initial guide, an addition rate of 0.1% - 0.15% by weight of cementitious binder (0.3% - 0.45% for mixes containing lime) should produce 18% - 20% air content in fresh mortar.

Oscrete A59 Air Entrainer should be accurately measured, preferably by dispensing unit. It should be added to the mix either with or immediately after the mixing water. Care should be taken to ensure that the material is distributed throughout the mix.

Overdosing of Oscrete A59 Air Entrainer will result in increased air content and workability, with a reduction in compressive strength.

#### Typical Properties

##### Appearance

Straw/Amber liquid

##### Relative Density

1.01 gcm<sup>-3</sup> at 20°C

##### Water Soluble Chloride to EN 480-10

Less than 0.005%

##### Alkali Content to EN 480-12

1.1% as Na<sub>2</sub>O equivalent

##### Corrosion Behaviour

No performance determined

##### Air Entrainment

18% - 20% depending on use

##### Compatibility

Oscrete A59 Air Entrainer is compatible with all

portland cement binders, including ggbs, pfa and hydrated, quick and putty limes. Oscrete A59 Air Entrainer is compatible with Oscrete R42 Retarder but should be added separately to the mixer.

#### Storage

Oscrete A59 Air Entrainer should be protected from extremes of temperature, and should not be allowed to freeze. Oscrete A59 Air Entrainer has a minimum shelf life of 1 year under normal conditions of storage. If the material freezes it should be heated and remixed.

#### Health & Safety

Oscrete A59 Air Entrainer is IRRITANT to eyes and in line with general chemical handling precautions, avoid contact with skin, eyes and wear protective gloves and goggles.

Refer to the Material Safety Data Sheet for Oscrete A59 Air Entrainer for full details.

#### Packaging

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

#### 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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