

Description

OPTOMIX A65 Air Entrainer is a specially formulated blend of synthetic surface active agents designed to entrain controlled and stable quantities of air in concrete.

Applications

OPTOMIX A65 Air Entrainer is used to entrain air in all concretes.

- Allows the uniform distribution of microscopic air bubbles throughout the cement matrix. Each micro bubble produced is the same size and shape.
- Designed to allow much easier dosing, allowing more accurate additions.

Benefits

- Improves the durability of concrete exposed to freeze thaw cycles by allowing the expansion of water within the bubble structure produced.
- Can be used to reduce the water content of concrete for a given workability.
- Increases the cohesion of the concrete which is beneficial for handling and placement. This is also a benefit where harsh aggregates are being used.

Standards

OPTOMIX A65 Air Entrainer complies with the requirements of 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.

Addition Rates

A dosage of 0.30 - 0.40% of **Oscrete A65** Air Entrainer by weight of cementitious binder should produce an air content of 4.0 - 6.0% in low to medium workability concrete.

The natural variations in cements and cement replacements, aggregate types, gradings and mix proportions will affect the dosage for a given air content.



OPTOMIX A65

for **readymix**

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Trials should therefore be carried out to determine correct dosage levels prior to production.

OPTOMIX A65 Air Entrainer should be accurately measured, preferably by dispensing unit. It should be added to the mix at the same time or immediately after the mixing water.

Overdosing of **OPTOMIX A65** Air Entrainer will result in an increased air content and workability, with a reduction in compressive strength.

Typical Properties

Appearance

Amber Brown Clear Liquid

Relative Density

1.00 g/cc³ at 20°C

Chloride Content

Nil

Alkali Content

0.10% as Na₂O equivalent

Freezing point

0°C

Corrosion Behaviour

No performance determined

Compatibility

OPTOMIX A65 Air Entrainer is compatible with all types of cement and cementitious replacements.

Storage

OPTOMIX A65 Air Entrainer should be protected from extremes of temperatures, and should not be allowed to freeze.

OPTOMIX A65 has a minimum shelf life of 12 months from the date of production under normal conditions of storage.

Handling

OPTOMIX A65 Air Entrainer is a non-hazardous product, but, in line with general chemical handling precautions to avoid contact with skin and eyes, protective gloves and goggles should be worn.

Refer to the Material Safety Data Sheet for **OPTOMIX A65** 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.

OSCRETE is a division of Christeyns UK Ltd.
Rutland Street
Bradford
West Yorkshire
BD4 7EA
United Kingdom

Telephone: +44 (0)1274 393286
Fax: +44 (0)1274 309143
e-mail: info@oscrete.co.uk
Website: www.oscrete.co.uk