

Description

Oscrete A36 Air Entrainer is a specially formulated blend of stabilised surface active agents designed to entrain controlled and stable quantities of air in concrete mixes and mortars.

Application

Oscrete A36 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

- 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 A36 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.

Addition Rates

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

Mortar

0.2% - 0.3% by weight of cementitious binder (0.6% - 0.9% for mixes containing lime) should produce a 15%-18% air content mortar.



Concrete

0.065% by weight of cementitious binder should produce 4.5% - 5.5% air content in medium workability concrete. This is equivalent to 180 - 240 ml per cubic metre for medium (275 - 360kg/m³) cement content concrete mixes.

Oscrete A36 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.

Overdosing of Oscrete A36 Air Entrainer will result in increased air content and workability, with a reduction in compressive strength.

Mix Designs

Mortars should be designed to comply with the relevant tables of BS 5628. Prescribed, designated and design mixes should comply with BS 5328 or other relevant specification.

Typical Properties**Appearance**

Amber/Brown liquid.

Relative Density

1.01g/cc at 20°C

Water Soluble Chloride to EN 480-10

Less than 0.005%

Alkali Content to EN 480-12

0.7% as Na₂O equivalent.

Corrosion Behaviour

No performance determine

Air Entrainment

15% - 18% depending on use.

Compatibility

Oscrete A36 Air Entrainer is compatible with all

portland cement binders, including ggbs, pfa and hydrated, quick and putty limes. Oscrete A36 Air Entrainer is compatible with Oscrete R42 Retarder but should be added separately to the mixer, and never premixed.

Storage

Oscrete A36 Air Entrainer should be protected from extremes of temperature, and should not be allowed to freeze. Oscrete A36 Air Entrainer has a minimum shelf life of 12 months under normal conditions of storage. Protect from extremes of temperature. If the material freezes it should be heated and remixed.

Handling

Oscrete A36 Air Entrainer is a non-hazardous product but in line with general chemical handling precautions to avoid contact with skin or eyes, protective gloves and goggles should be worn.

Refer to the Material Safety Data Sheet for Oscrete A36 Air Entrainer for full details.

Packaging

200 and 1000 litre containers 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