

OPTOMIX A59

Air Entraining Admixture

Description

Optomix A59 is a specially formulated blend of synthetic surface active agents designed to entrain controlled and stable quantities of air in concrete 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
Colour	Light Brown
Specific Gravity	1.01 g/cm ³
pH	10.5
Chloride Content	<0.10%
Na ₂ O equivalent	<1.50%

Addition Rates

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

Concrete

50mls - 100mls per 100 kg cement
(0.050% - 0.10% by weight of cement)*

* These doses will produce air contents of between 4.0% - 6.0% in medium workability concrete, trials to determine this fact must be carried out before starting any new contract.

Mortar

100mls - 150mls per 100 kg 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 contract.



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Compatibility

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

Optomix A59 should not be pre-mixed with other admixtures and should be batched separately.

Storage

Optomix A59 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 A59** 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 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.

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

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Disclaimer

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