

DAREX® AE3P

Air Entraining Agent

Product Description

DAREX®AE3P is a liquid airentraining agent for use in the production of air entrained concretes, blocks and cementitious compositions. DAREX®AE3P is formulated from carefully selected raw materials and is manufactured under controlled conditions. It is based on the salt of an ether sulphate and conforms to EN934-2, ASTM designation C260 and complies with BS 5075: Part 2, for air-entraining admixtures.

Product Advantages

- The presence of minute air bubbles in the cement matrix improves its resistance to freeze/thaw conditions.
- The dosage rate is high enough to enable accurate dispensing as recommended in ENV206.
- The permeability of the hardened concrete or mortar is reduced.
- The resistance to the disruptive action of de-icing salts and other liquids is improved.
- The cohesion of mixtures liable to segregation is improved.
- The workability of concrete or mortar mixtures is increased.
- In the case of lean mixtures, or those containing crushed rock aggregates, strength may be increased.
- The volume of yield of concrete mixtures is increased proportionally to the amount of air entrained.
- Entrained air is not readily lost from plastic concrete mixtures on standing.

Typical Properties

Appearance	amber liquid
Air Entrainment:	See "Addition Rates"
Chloride Content:	nil as per EN480-10
Freezing Point:	-2 °C

Addition Rates

Range: 140 ml - 500 ml per 100 kg cement.

The amount of DAREX®AE3P required is dependent on the characteristics of the concrete or mortar mixtures concerned, together with the degree of air entrainment required. Factors which can affect this are:

- Nature and grading of the aggregates, particularly fine aggregates.
- Cement content and type of cement used.
- Water/cement ratio.
- Workability of the mixture.



- Temperature.
- Type and efficiency of mixing equipment.
- Normal good site control gives excellent consistency of results.

It is essential that the final assessment of the dosage should be made after the site trials. As a guide to these trials, an addition rate of 140 ml – 240 ml DAREX [®]AE3P per 100 kg cement is recommended. For semi-dry mixtures, higher dosages are recommended.

For advice and assistance with your trials we would recommend that you consult GCP Applied Technologies.

DAREX®AE3P is supplied ready for use. It should be added to concrete or mortar mixtures during the mixing process at the same time as the water or the aggregates. It should not be added directly to the cement or the mortar. No extension of normal mixing time is necessary.

Overdosing with DAREX®AE3P will normally produce an increase in air content and workability, but will have no effect on the setting time or early strength development.

Compatibility

With cements:

DAREX [®]AE3P can be used with all types of Ordinary Portland Cement, including Sulphate Resisting Cement. For use with special cements we recommend that you consult GCP.

With other admixtures:

DAREX®AE3P should not be premixed with other admixtures. The performance of the material may be affected by the presence of other chemicals and we recommend that GCP be consulted in such circumstances.

Appearance

Dispensing

It is preferable that liquid admixtures for concrete should be introduced into the mixer by means of automatic dispensing equipment. A range of equipment is available, and advice on supply and fitting is available from GCP on request.

Packaging

DAREX®AE3P is supplied in 250 litre, non-returnable containers. Alternatively, bulk deliveries can be arranged.

Storage

DAREX®AE3P should be stored above 0 °C and protected from frost. If the product does freeze, it should be carefully thawed before mixing.



Storage life in manufacturer's drums:

12 months from the date of manufacture.

Storage life bulk storage:

12 months from the date of delivery.

Health and Safety

See DAREX®AE3P Safety Data Sheet or consult GCP.

Technical Service

The Technical Service department of GCP is available to assist you in the correct use of our products

gcpat.ae | United Arab Emirates customer service: +971 4 5139560

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