

Arcrete AE50

Air-entraining admixture for Concrete and Mortar



DESCRIPTION

Arcrete AE50 is a liquid air entraining agent for use in concrete and mortar mixes. It is used to improve the workability, cohesion, and durability of concrete and mortar by the entrainment of minute air bubbles of controlled size and spacing, uniformly distributed throughout the mix.

Arcrete AE50 is recommended for use whenever air entrained concrete is desired. Ready-mix, precast and block producers can achieve predictable and uniform entrained air contents in concrete, even where harsh lean mixes are used, or fly-ash is added to the concrete.

TYPICAL PROPERTIES

Appearance:	Brown Liquid
Specific Gravity:	1.02 at 25°C
Air Entrainment:	1% Max from Control Mix.
Chloride Content:	Nil according to BS5075
ASTM C260:	

COMPATIBILITY

With Cements:

Arcrete AE50 is compatible with all Portland, Pozzolanic and blast furnace cements. It is also compatible with concrete containing fly ash and silica fumes.

With Other Admixtures:

Arcrete AE50 is compatible with other ARKAZ admixtures in the same concrete mix. All admixtures should be added to the concrete separately and must not be mixed together prior to addition. The performance of concrete containing more than one admixture should be assessed by trial mixes to ensure the desired combination of effects is obtained.

ADDITION RATES

Range:

0.2 – 0.8 % Volume by weight of Binder Content

The addition rate of **Arcrete AE50** is dependent on the characteristics of the mortar or Concrete constituents and air entrainment required. Several factors which affect air entrainment are:

- Type and efficiency of mixing equipment
- Water content
- Fine aggregate content and type
- Cement/lime content and type
- Temperature

EFFECTS OF OVERDOSING

Arcrete AE50 is supplied ready for use. It should be added to the mixer during the mixing process, at the same time as the water or the aggregates and not directly onto cement. With good plant control, very consistent results can be obtained.

It is essential that preliminary plant trials are performed, so that the above criteria can be assessed, before dosage levels are finalized. For advice and assistance with your trials we would recommend that you consult Arkaz.

Overdosing of **Arcrete AE50** will result in a modest increase in air content and workability.

DISPENSING

It is preferable that **Arcrete AE50** should be introduced into the mixer by means of independent automatic dispensing equipment. Such equipment or advice on dispensing can be obtained from Arkaz.

METHOD OF USE

Arcrete AE50 is supplied ready for use. It should be added to concrete mixes either during the mixing cycle or at the same time as the water, or alternatively it should be added in its supplied form to a normal concrete mix a few minutes before the pour is made. In the latter case, further mixing should be provided to ensure complete dispersion.

PACKAGING

Arcrete AE50 is supplied in 210 non-returnable drums. Alternatively, 1,000-liter totes and bulk deliveries can be arranged.

HEALTH AND SAFETY

For more safety information you can check the MSDS or contact Arkaz technical department.

STORAGE & SHELF LIFE

Arcrete AE50 should be stored in original containers or suitable closed tanks preferably away from extreme temperature. Always keep product in shaded storage.

Storage Life: 12 months from date of manufacture.

TECHNICAL SERVICE

The technical service department of Arkaz is available to assist in the correct and best use of our products, these resources and advice are at your disposal entirely without obligation. Please contact us via our website arkaz.com

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