

# Arcrete AE10

Air-entraining admixture for Concrete and Mortar

## DESCRIPTION

**Arcrete AE10** 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 AE10** 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. **Arcrete AE10** Complies with ASTM C260.

## TYPICAL PROPERTIES

**Appearance:** Brown Liquid  
**Specific Gravity:** 1.03 at 20°C  
**Chloride Content:** Nil

## COMPATIBILITY

### With Cements:

**Arcrete AE10** is compatible with all Portland, Pozzolanic and blast furnace cements. It is also compatible with concrete containing fly ash and silica fume.

### With Other Admixtures:

**Arcrete AE10** 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:

0.05 – 0.8% Volume by weight of Binder Content

The addition rate of **Arcrete AE10** 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

**Arcrete AE10** 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 AE10** will result in a modest increase in air content and workability.

## DISPENSING

It is preferable that **Arcrete AE10** 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 AE10** 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 AE10** 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 Product Material Safety Data Sheet, send an email to [ConcreteDoctor@arkaz.com](mailto:ConcreteDoctor@arkaz.com) or Contact Arkaz Technical Department.

## STORAGE & SHELF LIFE

**Arcrete AE10** 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:  
concretedoctor@arkaz.com

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