

# Arcrete FA10

## Mineral Admixture for Concrete

### Product Description

**Arcrete FA10** is a high-quality ash that fully complies with the requirements for Grade 1 Fly Ash in Standard KF3582.1 as Supplementary cementitious material for use with General Purpose and blended cement. **Arcrete FA10** can be used as a supplementary cementitious material in concrete to improve a broad range of concrete performance characteristics.

### Uses

Fly Ash improves the following concrete characteristics:

- Later-age compressive strength
- Pumpability & workability
- Cohesiveness
- Permeability
- Resistance to chemical attack
- Resistance to chloride ingress
- Drying shrinkage.

### Typical Properties

Fineness passing 45um sieve	Min. 78 %
Moisture (%)	1 % Max.
Loss on Ignition (%)	≤ 4
SO <sub>3</sub> Content (%)	≤ 3

### Advantages

Concrete produced with Fly Ash may require less water to achieve a specified level of workability when compared to concrete produced with Type GP cement only. Concrete produced with Fly Ash may also have extended setting times when compared to concrete produced with Type GP cement only. The proportioning of constituent materials in a concrete mix is influenced by many factors. It is recommended that trials be conducted with the available raw materials to ascertain optimum cement contents for specific grades of concrete. For further guidance please refer to KF1379 – The specification and manufacture of concrete and KF3600 – Concrete Structures.

### Curing

A minimum concrete curing period of seven days is recommended. Concrete should be maintained in a continually moist condition for the curing period wherever practicable. Water sprays, wet sand or moisture retaining techniques such as covering with plastic sheeting or using curing compounds are recommended. Curing should begin as soon as the concrete has been finished or in accordance with manufacturers' instructions where proprietary curing compounds are used.

### Packaging & Handling

**Arcrete FA10** is generally considered a nuisance dust. Use and handling of silica fume does not represent a health risk when normal safety rules are observed. Direct contact may cause irritation of eyes. Prolonged contact may cause skin irritation. Inhalation may cause respiratory irritation resulting in coughing and shortness of breath. This product may be harmful if swallowed. Do not get in eyes and avoid prolonged skin contact. Do not take internally. Wash thoroughly with water after handling.

## Compatibility with Admixtures

**Arcrete FA10** is compatible with all types of Portland Cements, SRC cements and other cementitious materials including Micro Silica, GGBS and Lime Stone powder, also it is compatible with all Arkaz concrete admixtures. The addition of all Arkaz admixtures should be added separately to concrete and should not be mixed prior to the addition.

## Health and Safety

For further information, Check the Product Material Safety Data Sheet or please consult Arkaz.

## Technical Service

The Technical service department of Arkaz AlSharq Building Materials 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:

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