

Arcrete G1057

High-Range Water Reducing Concrete Admixture combining both enhanced consistence Retention and Rheology performance for Hot Weather Ready-mix Concrete Applications
Comply to ASTM C494 Type G and BS EN 934-2

DESCRIPTION

Arcrete G1057 is a High-Range Water Reducer developed to enhance and improve the slump retaining properties of concrete, whilst providing improved ultimate compressive strengths also it improves the flow and strength development of concrete as it is highly flexible and effective over a wide range of cement contents and types. The product is especially beneficial in hot climate conditions and complies to ASTM C494 and BS 934-2.

TYPICAL PROPERTIES

Appearance: Brown Liquid
Specific Gravity: 1.21 ± 0.02 at 25 ± 2 °C.
Chloride Content: Nil according to BS5075.

COMPATIBILITY

With Cements:

Arcrete G1057 can be used with most types of Portland cements as well as Pozzolanic Cements, Natural Pozzolan, Ground Granulated Blast Furnace Slag (GGBFS) (**Arcrete BFS100**), Micro Silica (**Arcrete MS920**) and Fly Ash (**Arcrete FA10**). For use with other special cements, we recommend you contact Arkaz Technical Department.

With Other Admixtures:

Arcrete G1057 performance will be affected by the presence of other chemical admixtures, therefore in such case it is necessary to assess performance under site conditions using actual materials to determine optimum performance. We recommend that all admixtures be added separately into the mixer.

ADDITION RATES

Range:

0.3%-2% (V/W) by wt. of cement

The optimum dosage is assessed after preliminary trials depending upon the actual mix constituents and specifications required.

Addition rates outside of the recommended dosage range may be used for special concrete applications. In such circumstances, it is important to conduct preliminary trials on the actual mix constituents to assess the effect on the properties of the concrete at the dosage level specified.

EFFECTS OF OVERDOSING

Serious overdosing of **Arcrete G1057** will generally produce a concrete mix of even greater workability, set retardation and a slight increase in air entrainment may be noticed. In SRC mixes and in cooler weather, set retardation will be further increased. If Intentional or accidental increased above the recommended addition rates are encountered, care must be taken to allow for the effect on the stripping time of formwork. In such cases, however, provided the concrete is properly cured the ultimate strength will generally be higher than for normal concrete.

DISPENSING

It is preferable that **Arcrete G1057** 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 G1057 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 G1057 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 or Contact Arkaz Technical Department.

STORAGE & SHELF LIFE

Arcrete G1057 should be stored in original containers or suitable closed tanks preferably away from extreme temperature. Always keep product in shaded storage.

Storage Life in Manufacturer's Drums: 12 months from date of manufacture.

Storage Life in Bulk Storage: 12 months from date of delivery.

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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