

# Arcrete G121GW

High-Range Water Reducing Concrete Admixture  
for Hot Weather Readymix Concrete Applications



## DESCRIPTION

**Arcrete G121 GW** is a High-Range Water Reducer developed to enhance and improve the slump retaining properties of concrete, whilst providing improved ultimate compressive strengths. It can be used at a range of dosage levels to.

- Reduce water content
- Reduce Cement Content
- Increase compressive strength
- Increase workability

**Arcrete G121 GW** is highly flexible and effective over a wide range of cement contents and types. The product is especially beneficial in either high strength or high durability concrete mix designs in hot climatic conditions.

## TYPICAL PROPERTIES

<b>Appearance:</b>	Dark Brown Liquid
<b>Specific Gravity:</b>	1.115 at 25°C
<b>Air Entrainment:</b>	1% Max from Control Mix.
<b>Chloride Content:</b>	Nil according to BS5075
<b>ASTM C494 Classification:</b>	Type G

## EFFECTS OF OVERDOSING

Serious overdosing of **Arcrete G121 GW** 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.

## COMPATIBILITY

### With Cements:

**Arcrete G121 GW** 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 G121 GW** performance of the product will be affected by the presence of other chemical admixtures. We recommend Arkaz be contacted for Advice in these circumstances.

## DISPENSING

It is preferable that **Arcrete G121 GW** 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 G121 GW** 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.

## ADDITION RATES

### Range:

0.5 % - 3 % (v/w) by wt. of cement  
500 ml - 3000 ml per 100 kg cement

As with most products of this type, the magnitude of the effect obtained with **Arcrete G121 GW**, is governed by the quantity of products used, water-cement ratio, and the specific nature of the concrete and constituent materials. It is necessary, therefore, to assess performance under site conditions using actual materials to determine optimum performance and dosage and effect on both plastic and hardened concrete properties such as cohesiveness, workability retention, setting characteristics, rate of early strength gains, ultimate strength and shrinkage where these are of importance.

## PACKAGING

**Arcrete G121 GW** 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 G121 GW** 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.

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## 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](http://arkaz.com)

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