

Arkproof WP

Plasticizing and Waterproofing Admixture
ASTM C494 Type A & D and BS EN 934-2

DESCRIPTION

Arkproof WP is a liquid plasticizer, or water reducing agent used to effectively reduce permeability of concrete to improve the water tightness. The effect is achieved reducing the water/cement ratio by its adsorption onto the surface of the cement particles in a concrete mix giving a powerful deflocculating action.

Arkproof WP is formulated from carefully selected raw materials and is manufactured under controlled conditions to give a consistent product. It is based on high grade modified lignosulphonic acid derivative and depending on addition rate conforms to Type A and D materials of ASTM designation C-494 and complies with BS EN 934-2.

TYPICAL PROPERTIES

Appearance: Dark Brown Liquid
Specific Gravity: 1.17 ± 0.02 at 25°C
Air Entrainment: 1.5% Max from Control Mix.
Chloride Content: Nil according to BS5075.

COMPATIBILITY

With Cements:

Arkproof WP 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:

Arkproof WP should not be premixed under any circumstances with other admixtures. The performance of the product will be affected by the presence of other chemical admixtures. We recommend Arkaz be contacted for Advice in these circumstances.

ADDITION RATES

Range:

0.5%-1.5 % (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 **Arkproof WP** 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 **Arkproof WP** 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

Arkproof WP 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

Arkproof WP 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

Arkproof WP 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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