

# ARKPROOF WP50

Hydrophobic Integral Waterproofing Concrete Admixture

## DESCRIPTION

**ARKPROOF WP50** is a chloride free organic admixture and supplied as a brown liquid. It reacts with the cement hydration process byproducts to form a hydrophobic ingredient to reduce the capillary suction and prevent the absorption of potentially damaging soluble material, resulting in concrete with enhanced durability. The water insoluble organic Material in **ARKPROOF WP50** acts as a non-wettable lining on the walls of all pores and voids in the mix, making them water repellent, making concrete more resistant against Carbonation and Efflorescence.

## TYPICAL PROPERTIES

**Appearance:** Brown Liquid

**Specific Gravity:** 1.02 ± 0.05 at 25°C

**Air Entrainment:** 2% Max from the mix without WP50.

**Chloride Content:** Nil as per BS 5075

## COMPATIBILITY

With Cements:

**ARKPROOF WP50** 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 WP50** 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

**Processing & Dosage:**

Processing of undiluted product as a water resisting admixture according to EN 934-2:2009 Tab. 9. The recommended admixture range is 0.5 % to 1.5 % of the cementitious materials content. Dosage different than that mentioned can be used as per the required water absorption result should be achieved Concrete Mix design specifications.

In some certain circumstances can be used 2% dosage of **Arkproof WP50** but might affect on Air content (increased) and the mix workability more than the control mix due to its unique action mechanism, therefore the mix should be adjusted to get the desired properties.

**ARKPROOF WP50** is added either simultaneously with or immediately after the mixing water.

**ARKPROOF WP50** water absorption ≤ 1 % As per BS 1881: Part122.

If **ARKPROOF WP50** is used in the new built concrete structure, it will lengthen its life and maintain its appearance as it contains Chemicals that make the concrete watertight.

## DISPENSING

It is preferable that **ARKPROOF WP50** 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 WP50** 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 WP50** 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

**ARKPROOF WP50** 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 provided the temperature is kept within the range of 5°C to 35°C. Freezing point: Approximately -2°C.

### 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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