

# Arkflow ESR27

Extended workability additive for concrete combining both enhanced consistence Retention & Rheology performance  
Conforms with ASTM C494 Type S.

## DESCRIPTION

**Arkflow ESR27** is a state of art concrete additive which allows the concrete to be workable for long periods without negatively affecting concrete durability. Its specifically designed molecular structure gives it exceptional properties as a concrete additive. Using **Arkflow ESR27** results extensive workability at all levels of consistency, compared to standard additives. **Arkflow ESR27** is recommended to produce concrete requiring low viscosity, long workability retention and high compressive strength.

## TYPICAL PROPERTIES

**Appearance:** Brownish Viscous Liquid  
**Specific Gravity:**  $1.12 \pm 0.02$  at 25°C  
**Air Entrainment:** 1% approx. from Control mix  
**Chloride Content:** Nil as per BS 5075.

## COMPATIBILITY

### With Cements:

**Arkflow ESR27** can be used with most types of Portland cements as well as Pozzolanic Cements, Ground Granulated Blast Furnace Slag (GGBFS), Micro Silica and Fly Ash. For use with other special cements, we recommend you contact Arkaz Technical Service Department.

### With Other Admixtures:

**Arkflow ESR27** performance will be affected by the presence of other chemical admixtures. We recommend Arkaz Technical Service Department to be contacted for Advice in such circumstances.

## ADDITION RATES

### Range:

200 ml - 2000 ml per 100 kg cement  
0.2% - 2.0% (v/w) by wt. of cement

As with most products of this type the magnitude of the effect obtained with **Arkflow ESR27**, is governed by the quantity of product used, W/C 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.

For advice and assistance with trials we recommend that you contact Arkaz.

## EFFECTS OF OVERDOSING

The effects of overdosing **Arkflow ESR27** are a function of the degree of overdose.

When concrete has been produced, which has been overdosed, the level of workability will increase and may under certain situations lead to segregation of the mix. Setting time may also increase, especially if the overdosed concrete is subjected to low ambient temperatures, or if sulfate resisting or certain Pozzolanic cements are employed.

## DISPENSING

It is preferable that **Arkflow ESR27** 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

**Arkflow ESR27** is supplied ready for use. When producing high workability concrete or concrete of low w/c ratio it is recommended that **Arkflow ESR27** be added in its supplied form to the batching water prior to addition of the cementitious component. Addition of any other chemical admixture should be undertaken separately.

## PACKAGING

**Arkflow ESR27** is supplied in 210 non-returnable drums. Alternatively, 1,000 liters 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 Service Department.

## STORAGE & SHELF LIFE

**Arkflow ESR27** should preferably be stored away from extremes of cold or heat. 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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