

CIKOflow WR

Smart Chemical Solutions



Workability retaining and retarding plasticizer

Description

CIKOflow WR is a mid-range water reducing and workability retaining super plasticizer. It exhibits excellent workability retention along with reduction in water. It is particularly suitable for hot weather concreting.

CIKOflow WR is a chloride free admixture based on specially selected and blended organic polymers. CIKOflow WR disperses the fine cement particles in the concrete mixes, to retard and maximize hydration of the cement paste.

Properties

- Good workability retention in hot weather concreting
- Reduction in water cement ratio imparts high strength at all stages
- Durable concrete due to low permeability
- Provides segregation and bleeding free concrete
- Provide extended working time to concrete even at elevated ambient temperatures
- Provide low heat of hydration in mass concreting

Application area

- Ready-mix concrete to improve workability without increasing water-cement ratio at elevated temperatures.
- Mass concrete pour
- Hot weather concreting
- To produce low permeable and high strength concrete

Applicable standards

- CIKOflow WR complies with ASTM C-494 type G.
- Comply with Qatar Construction Specification QCS.

Physical properties

Form	Liquid
Colour	Brown
Specific Gravity	1.21±0.015 at 25 °C
Chloride Content	Nil to BS 5075
Compatibility	Compatible with other CIKO admixtures and all types of cement
Air content	Less than 2%

Dosage

The normal dosage is 0.5 to 1.5 litres per 100kg cement which includes cement replacements (if any) such as microsilica, GGBFS, and fly ash. In case if the required dosage rate is more than 1.5 litres per 100kg cement, consult CIKO technical service department to customize the solution.

The optimum dosage should be determined by conducting laboratory/site trials considering proposed mix design, ambient conditions and performance requirements.

Usage instructions

CIKOflow WR is a ready to use concrete admixture. Required/calculated amount of CIKOflow WR should be measured by means of measuring jar or dispenser, and should be added to concrete during mixing process preferably at the same time along with water.

To attain optimum efficiency of the admixture, it is always recommended to dose CIKOflow WR to wet concrete mix. This can be achieved by mixing 70-75% of the total required water with all other ingredients of concrete, followed by the addition of CIKOflow WR diluted with remaining 25-30% water.

NOTE: CIKOflow WR should not be mixed with dry/lump concrete.

Compatibility with other admixtures

CIKOflow-WR is compatible with other CIKO admixtures provided each admixture is dispensed separately into the concrete. Site trials should be conducted to obtain optimum dosage. Contact CIKO technical service department for any further information.

Packaging

CIKOflow WR is available in 200 litre drums and in 1000 litre IBC tank.

Shelf Life

CIKOflow WR has a minimum shelf life of 12 months if stored in accordance with CIKO instructions.

Storage

CIKOflow WR should be stored under enclosed shaded area.

Precautions

- Dosage shall not be more than the maximum limit

Effect of over dosage:

Over dosage to the extent of double the recommended dosage of CIKOflow WR will result in increased retardation, workability and slight increase in air entrainment. The retardation effect will be more in case if sulphate resistant cement and cement replacement materials are incorporated in the mix. Increase in retardation will not affect the ultimate strength of concrete if it is cured as per the standard curing practices in accordance with relevant standards.

Health & Safety

CIKOflow WR should not come in contact with eyes or to be swallowed. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

CIKOflow WR is water based material and non-flammable

Refer Material Safety Data Sheet for further details.

Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

TDS/AD18 Rev.:1 Issue:C

Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control



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