

CIKOflow WP

Smart Chemical Solutions



Waterproofing admixture for concrete and mortars

Description

CIKOflow WP is a capillary or pore reducing concrete admixture that minimizes the permeability of concrete mix. It is suitable for both plain and structural concrete.

The active ingredients in CIKOflow WP disperses the cement evenly in the mix reducing the water-cement ratio and thereby reduction in permeability.

Properties

- Minimise porosity and permeability in the concrete.
- Suitable for all kinds of concrete by reducing placing and compacting problems.
- Uniform distribution throughout concrete mix.
- Provides durable concrete or mortar.

Application area

- All water retaining structure such as water tanks and swimming pools.
- Structural elements such as roof slab, retaining walls and basements.
- More suitable for tunnels and coastal structures.
- Concrete subjected to immersed conditions.
- Damp-proof screeds for bathrooms and kitchens.

Physical Properties

Form	Liquid
Colour	White
Specific Gravity	0.99 ± 0.015 at 25 °C
Chloride Content	Nil to BS 5075
Compatibility	Compatible with other CIKO admixtures and all types of cement

Dosage

The normal dosage is 1 to 2 litres per 100kg cement should be added to the concrete.

The optimum dosage should be determined by conducting laboratory/site trials considering proposed mix design, ambient conditions and performance requirements. To achieve good workability, it is advisable to use CIKO range of water reducing admixture in conjunction with CIKOflow WP.

Usage instructions

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

In case of dual admixture usage, the water reducing admixture should be dosed first into concrete and mixed for 2-3 minutes followed by the dosing of CIKOflow WP.

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

Compatibility with other admixtures

CIKOflow WP 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 WP is available in 20 litre pails, 200 litre drum and 1000L IBC Tanks.

Shelf Life

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

Storage

CIKOflow WP should be stored under enclosed shaded area at temperatures between 5⁰C and 40⁰C.

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 WP will lead to retardation in setting time and excess in workability time.

- Use the lowest W/C ratio possible to give lowest permeability.
- Ensure proper placing and compaction.
- Avoid cold joints while casting.
- Ensure proper protection against rapid drying and proper curing.

Health & Safety

CIKOflow W 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 W 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