

# CIKOentrain

Smart Chemical Solutions



## Air entraining concrete admixture

### Description

CIKOentrain is a resin based, chloride free air entraining admixture used for the production of air entrained concrete. During concrete mixing, microscopic air bubbles are formed and distributed evenly throughout the concrete. CIKOentrain provides excellent resistance to frost and de-icing salts.

### Properties

- Generates ultrafine stable air bubbles that are strong and evenly distributed in the concrete.
- Increase in resistance of concrete against frost and de-icing salts.
- Improves workability and cohesion of mixes.
- Low heat of hydration during mass concrete pouring.
- Reduces segregation and bleeding.

### Application area

- To produce air entrained concrete for protection against damage due to frost and de-icing salts.
- To increase the cohesion of concrete mixes when poorly graded aggregates are used. It overcomes bleeding and segregation problem.
- To produce concrete containing high fly ash or fine materials.

### Applicable standards

CIKOentrain complies with ASTM C-260.

### Physical properties

Form	Liquid
Colour	Dark brown
Specific Gravity	1.04±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 0.05 to 0.2 litres per 100kg cement. In case if the required dosage is more than 0.2 litres per 100kg cement, consult CIKO technical service department to customize the solution.

The optimum dosage should be obtained by conducting site/laboratory trials maintaining actual variables in terms of materials and conditions.

### Usage instructions

CIKOentrain is a ready to use concrete admixture. Required/calculated amount of CIKOentrain 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 CIKOentrain to wet concrete mix. This can be done by mixing 70-75% of the total required water with all other ingredients of concrete followed by the addition of CIKOentrain diluted with remaining 25-30% water.

NOTE: CIKOentrain should not be mixed into dry/lump concrete.

### Compatibility with other admixtures

CIKOentrain 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 further information.

### Packaging

CIKOentrain is available in 20 litre pails and 200 litre drums.

### Shelf Life

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

### Storage

CIKOentrain 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 CIKOentrain will result in drastic reduction of compressive strength of concrete.

## Health & safety

CIKOentrain 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.

CIKOentrain 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

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