

CICO CRYSTALSEAL-ADMIX

Crystalline Waterproofing Admixture

CICO CRYSTALSEAL-ADMIX is a unique chemical treatment for waterproofing and protecting concrete. This admix is specially designed as a concrete additive at the time of batching and forms catalytic crystalline growth within the concrete, making it waterproof.

CICO CRYSTALSEAL - ADMIX conforms to IS 2645-2003 and available with ISI standard Mark.

USES

- Reservoirs
- Sewage and Water Treatment Plants
- Secondary Containment Structures
- Tunnels and Subway System
- Underground Vaults
- Parking Structures
- Swimming Pools
- Pre-Cast, Cast-in-Place and Shotcrete applications

FEATURES

- Increase impermeability of concrete up-to a very high extent and thus makes concrete waterproofed.
- Will withstand extreme hydrostatic pressure
- Exceptional durability at -20°C to 50°C
- Reduces shrinkage and cracking
- Protect concrete against so many aggressive chemicals including chloride and sulphate attack to steel reinforcing
- Can seal static cracks up to 400 micron
- Saves lot of construction time and Cost effective
- To achieve best waterproofing properties use with minimum 300 mm thickness of **CICO CRYSTALSEAL ADMIX** concrete depth

TECHNICAL DATA

Appearance	Grey powder
Comp. Strength	Increased by 3%
Flexural Strength	Increased by 5%
RCPT Coulomb	Reduced by 24%
Water Permeability (Max. Depth mm)	Reduced by 59%
Drying Shrinkage at 28 Days,%	Reduced by 28%
Chloride (as Cl) Water Soluble Kg/CUM	0.021
Sulphate (as SO₃) Water Soluble Kg/CUM	0.11

Dosages

0.8 - 1.0% by weight of cement. Consult with CICO's Technical Department for assistance in verifying the appropriate dosage rate

METHOD OF USE

CICO CRYSTALSEAL ADMIX must be added to the concrete at the time of batching. With the fine and cores aggregate, then mix thoroughly for 2-3 minutes before adding the cement and water. The total concrete mass should be mixed as per the standard mixing practices.

CICO CRYSTALSEAL ADMIX can also be mixed in transit mixer in the form of slurry by mixing water (the quantity of water should be adjusted with the requirement of concrete)



NOTE: It is important to obtain a homogeneous mixture of **CICO CRYSTALSEAL ADMIX** with the concrete. Therefore, do not add dry **CICO CRYSTALSEAL ADMIX** powder directly to wet concrete as this may jeopardize the purpose as thorough dispersion will not occur. For further information regarding the proper use of **CICO CRYSTALSEAL ADMIX** for a specific project, consult with a CICO Technical Representative.

Setting Time and Strength:

The setting time of concrete may slightly be affected for the chemical and physical composition of ingredients, temperature of the concrete and climatic conditions. Retardation of setting time may occur for using **CICO CRYSTALSEAL ADMIX**. The amount of retardation will depend upon the concrete mix design and the dosages.

However, under normal conditions, **CICO CRYSTALSEAL ADMIX** will provide a normal Set concrete. Concrete containing **CICO CRYSTALSEAL ADMIX** may develop higher ultimate strengths than control. Trial mixes should be carried out under project conditions to determine setting time and strength of the concrete.

PRECAUTIONS

CICO CRYSTALSEAL ADMIX, system must be applied with temperature above 5° C and below 40° C.

STORAGE

Store in dry cool place and away from direct sunlight.

PACKAGING

20kg HDPE bag

SHELF LIFE

6 Months

Important Note:

All CICO products are sold in the market after strict Quality Control in line of ISO 9001 and guaranteed against any manufacturing defect. Although the basic formulation of Company's products generally remains unchanged, production refinements arising from continuing research and evaluation program may occasionally result in marginal changes in properties. CICO aspires to ensure that any recommendation, advice, test data, specification, method statement and other information given in this product datasheet is accurate and best of company's knowledge. Since, the company (CICO TECHNOLOGIES LTD) has no control over the selection of its product, applicators, application methodology, how and where it is applied, therefore, the company cannot accept any liability directly or indirectly arising from the use of its product. It is important to any customer, user or specifier satisfies him / herself that the product is suitable for the intended purpose including health, safety and environmental aspect. Unless or otherwise agreed in writing, all products of the company are sold strictly pursuant to the terms of our standard conditions of sale which are available upon request. All information and technical assistance is given without warranty or guarantee and is subject to change without notice. All customers, users, specifiers should ensure that they examine the suitability of the product with company's latest product datasheet.

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