

CICO SUPER

NORMAL SETTING LIQUID INTEGRAL WATERPROOFING COMPOUND FOR CONCRETE/MORTAR

CICO SUPER is normal setting integral cement waterproofing compound for concrete and mortar/plaster with normal plasticizing property in liquid form. **CICO SUPER** is a blend of specialty active ingredients to make concrete waterproof when there is permeability through hydrostatic pressure or capillary absorption.

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

USES

CICO SUPER is extensively used in RCC, Plain Cement Concrete and cement-sand mortar/ plaster intended for water tank, roof deck, ceiling, basement, retaining walls, exterior walls, lift pit or in a situation where hydro-insulation is a must.

FEATURES

- Is highly effective in reduction of permeability due to hydrostatic head pressure or capillary action or both.
- Segregation and bleeding are substantially reduced due to increased cohesion.
- Increases retention of slump and improves workability due to normal plasticising property.
- Improves surface finish of concrete.
- Very high quality indigenous polymer blend.

APPLICATION

Determine the quantity of **CICO SUPER** and water depending upon cement-sand ratio for mortars or water-cement ratio for concrete. Add measured quantity of **CICO SUPER** to mixing/ gauging water and stir well for better dispersion. Then add this solution to the dry mortar or concrete and mix for 2-3 minutes.

Caution:

1. Never add CICO Super directly to the mortar/concrete mix.
2. Always use recommended dosage

TECHNICAL DATA

Appearance	Brown coloured liquid
pH value	> 10
Specific Gravity	1.06 ± 0.02
Dosage, percent by wt. of Cement	0.2% or 100 ml per bag of cement
Maximum Chloride content	0.1%

SHELF LIFE

18 months at ambient temperature and standard storage conditions of 5°C to 40°C.

PACKING

100 ml, 1L, 5L, 10L, 20L, 50L and 200 L plastic container

HEALTH & SAFETY

Non-toxic, Non-flammable, Eco-friendly.

STORAGE

CICO SUPER should be stored in a cool dry place in the temperature range from 5°C to 40°C in sealed condition. Keep away from and direct Sun Light.

TEST RESULTS AS PER IS – 2645:2003 Cement OPC 43 grade Standard Sand as per IS 650			
Properties	Control Mix	With CICO SUPER	Requirement
	(without admixture)		
Dosage	None	100ml/50 kg cement	As per declaration
Setting time, Initial, minutes	110	105	Not less than 25% of control mix
Setting time, Final, minutes	212	220	Not more than 25% of control mix
Compressive strength kg/cm²			
3 days	245	248	Not less than 90% of control mix.
7 days	357	368	Not less than 90% of control mix.
28 days	463	470	-
Permeability to water with 2 kg/cm ² pressure for 8 hours percolation in ml	1800	260 (14.4%)	Maximum 50% of control
Chloride % (w/w) by mass		0.02	0.1 (Max. as declared)
Conformity	These test results are within the limits of the standards, IS:2645		

TEST RESULTS AS PER IS – 2645:2003 Cement OPC 53 grade Standard Sand as per IS 650			
Properties	Control Mix	With CICO SUPER	Requirement
	(Without admixture)		
Dosage	None	100ml/50 kg cement	As per declaration
Setting time, Initial, minutes	160	165	Not less than 25% of control mix
Setting time, Final, minutes	202	208	Not more than 25% of control mix
Compressive strength kg/cm²			
3 days	278	282	Not less than 90% of control mix.
7 days	382	390	Not less than 90% of control mix.
28 days	548	570	-
Permeability to water with 2 kg/cm ² pressure for 8 hours percolation in ml	2200	710 (32.27%)	Maximum 50% of control
Chloride % (w/w) by mass		0.02	0.1 (Max. as declared)
Conformity	These test results are within the limits of the standards, IS:2645		

TEST RESULTS AS PER IS – 2645:2003 Cement PPC Standard Sand as per IS 650			
Properties	Control Mix	With CICO SUPER	Requirement
	(Without admixture)		
Dosage	None	100ml/50 kg cement	As per declaration
Setting time, Initial, minutes	155	158	Not less than 25% of control mix
Setting time, Final, minutes	208	215	Not more than 25% of control mix
Compressive strength kg/cm²			
3 days	145	168	Not less than 90% of control mix.
7 days	217	228	Not less than 90% of control mix.
28 days	360	370	-
Permeability to water with 2 kg/cm ² pressure for 8 hours percolation in ml	2000	685 (34.25%)	Maximum 50% of control
Chloride % (w/w) by mass		0.02	0.1 (Max. as declared)
Conformity	These test results are within the limits of the standards, IS:2645		

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 data sheet.

CICO TECHNOLOGIES LIMITED

Corp. Office: C-120, 2nd Floor, Okhla Industrial Area,
 Phase –I, New Delhi-110 020
 Tel. No: 91-11-4050 9400, Fax: 91-11-4050 9413
 E-Mail: cicotech@cicogroup.com
 Web Site: www.cicogroup.com

