



CORROCHEM

The Millenium Additive For High Performance Concrete

DESCRIPTION

CORROCHEM is now new generation, multifunctional additive for cement and concrete, which is a harmonious blend of corrosion inhibitor, super plasticizer and Micro silica.

USES

Can be used in varying dosages in a mix design, to produce gas -tight concrete, with pre- determined properties. For mixes with high cement factor, CORROCHEM can also be used as a part replacement of cement, determined through trials. CORROCHEM is compatible with all OPC, white & special cements. It is very suitable for slender elements and in areas with congested reinforcement.

FEATURES

CORROCHEM gives the user the following advantages:

- * Substantial water reduction.
- * Cement savings, keeping strength & workability intact.
- * Drastically reduces permeability.
- * Enhances durability.
- * Resistance to creep.
- * Long term corrosion protection for rebars in RCC.
- * Strong protection of concrete from aggressive chemicals.
- * Produces fair- faced concrete.
- * Holds alkalinity of concrete for longer periods.
- * Increases density and water tightness of concrete.
- * Produces workable concrete in hot and windy conditions at low w. c. ratio.
- * Increases yield, as CORROCHEM compensates drying shrinkage.
- * Chloride free.

APPLICATION & ADVANTAGES

- * CORROCHEM is particularly recommended in chemically aggressive and marine environment viz. Factories, coastal areas, where ordinary concrete is prone to deteriorate rapidly.
- * CORROCHEM brings into concrete the properties of concrete admixed with micro silica, making green concrete extremely cohesive, almost impermeable and gas-tight.
- * CORROCHEM acts as a corrosion inhibitor in RCC, where rebars are often susceptible to chloride attacks and carbonisation. Sulphate attacks are also prevented, as CORROCHEM never allows pH of the concrete to fall below 11.
- * CORROCHEM produces free flowing concrete with high initial slump and with a retention upto 2 hours, thereby making it the ideal additive for pumping concrete. It will not only offer least load to the pump, saving electricity costs, but it will also allow the concrete to flow smoothly through bends and angles, eliminating chances of pipe choking.

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- * Strength gain in concrete added with CORROCHEM is fast, thereby facilitating early deshuttering and quicker progress of construction work.
- * Cracks arising from drying shrinkage is compensated by reducing surface tension of water, that accumulates in the pores of the concrete matrix.
- * CORROCHEM is a sure-shot product for high performance design mixes, viz.M-40 and beyond. The super plasticizing effect enables to produce high strength concrete at low water cement ratios, while maintaining good workability.
- * Use of CORROCHEM in concrete implies long term savings in cost of expensive protective overcoats with fusion bonded epoxies, carbonization protection coatings, polyurethane paints or use of special steel.

DOSE

Vary dosage from 5% to 15% by weight of cement. For high strength concrete, where Cement factors exceed 400 kg per cubic meter, CORROCHEM can be used, as a replacement of cement.

BASIC DATA

Bulk Density	:	875 kg/M ³
Colour	:	Grey
Packaging	:	25 kg pack.
Shelf life	:	1 year

TECHNICAL SERVICE :

SWC group maintains a technical division with highly qualified technical personnel to investigate and advise on subjects related to Concrete and the Construction Industry. The Division can advise on the correct use and selection of right products at the right place.

SWC undertakes Consultancy Service for diagnosis and rehabilitation of distressed structures. SWC undertakes Contracts on turnkey basis for total Waterproofing System with guarantee

NOTE : This Technical data sheet is to be used as guidance only. Although the basic formulation of the product remains unchanged, production refinements arising from continuing research and evaluation programmes may occasionally result in marginal change in properties. The recommendation and properties of the product based on continuous monitoring of the product are not intended to infringe on other patents.

THE STRUCTURAL WATERPROOFING CO.PVT.LTD.

Regd. Office : 21/1 Dover Road Calcutta- 700 019 **Dial :** 2475-2684/5378/9950, **Fax :** 2475- 8240
Calcutta : Plot 38/1, Block-GN, Sector IV &V, Salt Lake City, Calcutta- 700 091
Dial : 2357- 3546/3547 , **Fax:** 2357 3881
Delhi Office : 406, Deepali, 92, Nehru Place, New Delhi - 110 019, **Dial:** 26445680 &
26435432 **Fax:** 26416861
Mumbai Office : 56, Mahavir Centre, Sector -17, Vashi , Navi Mumbai - 400 703,
Dial: 27893601, **Fax:** 27893571 **E-mail:** swcbom@bom5.vsnl.net.in
Chennai Office : 81, 3rd Floor, A, Sulochana Terrace, 1st Main Road, Gandhi Nagar, Adayar,
Chennai-600 020 **Dial.** 24423731 **Fax**.24422476
Bangalore Office : 104, Victoria View, Borewel Road, White Field, Bangalore – 560 066.
Telefax : 080 – 3310112 **Email :** swcbangalore@yahoo.co.in

