CHEMTECH®
ENGINEERING PVT LTD

HYPERCRETE

COST EFFECTIVE WATER PROOFING

Product Data Sheet

DESCRIPTION

CHEMTECH HYPERCREATE is a acrylic polymeric additive to be used with cement for multipurpose use i.e. waterproofing of basements, toilets, sunken portion, roofs, swimming pool, watertank etc for surfaces protection, repair, rehabilitation, floor topping, durable 8, aesthetic exterior finish with cement paint, repairing of concrete and masonry, joining concrete to concrete etc.

ADVANTAGES

CHEMTECH HYPERCREATE is a acrylic polymeric additive to be used with cement for multipurpose use i.e. waterproofing of basements, toilets, sunken portion, roofs, swimming pool, watertank etc for surfaces protection, repair, rehabilitation, floor topping, durable 8, aesthetic exterior finish with cement paint, repairing of concrete and masonry, joining concrete to concrete etc.

DIRECTIONS FOR USE

The surface should be free from all dust or foreign matters. All concrete surfaces should be thoroughly pre-wetted for at least one hour prior to the application of CHEMTECH HYPERCREATE coating, by pouting water on flat surface or by vigorously spraying water on vertical / inclined surfaces. Before treating the surface with CHEMTECH HYPERCREATE, any excess water should be removed so that surface is only damp. In no case there should be standing water or a shiny wet surface. Depressions may be filled and levelled using CHEMTECH HYPERCREATE modified mortar prepared by the mixing 1 kg cement, 1.5 kg silica sand and 0.5 kg. CHEMTECH HYPERCREATE is mixed with neat cement in the ratio of 1 kg cement: 1 kg of CHEMTECH HYPERCREATE. It should be stirred thoroughly until no air bubbles remain in the mix. The mix has to be applied by brush on the prepared surface. Two or more coats are recommended. First coat should be allowed to air dry for 5-6 hours before application of second coat

COVERAGE

An yield of 1.2 lt of the mortar is obtained by mixing 1/2 kg of CHEMTECH HYPERCREATE with 1 kg of cement along with 1.5 kgs of clean Zone — II sand. This mortar roughly covers 2 sq. ft to a thickness of 1 to 2 mm. In slurry 1 kg of CHEMTECH HYPERCREATE mixed with one volume of cement covers an area of 25 sq. ft per coat. Two coats are recommended.

CURING

CHEMTECH HYPERCREATE system must be applied at temperature above 10°C. and preferably below, 35°C. During the first 12 hours of curing, it must be protected from abrasion, rain and other adverse conditions. No traffic should be allowed on a CHEMTECH HYPERCREATE treated surface within 48 hours of application. After application of final coat of CHEMTECH HYPERCREATE the surface should be allowed to dry for 2 — 6 Hours. After maximum period of 6 hours of final application, moist curing should be done for the next 24 hours by way of mist spraying. During this period at no point of time should the CHEMTECH HYPERCREATE coating be left completely dry or submerged in water. Following moist curing the CHEMTECH HYPERCREATE coating should be allowed to air dry for 3 days before submersion in water or putting the surface to regular use.

PROPERTIE

PROPERTIES	SPECIFICATION	RESULTS
Appearance		Milky white liquid
Chloride content		Nil
Specific Gravity at 27^{0}C		1.03 ± 0.02
Solid content, % (w/w)	IS 13435	33 ±3
pH Value	IS 13435	8.0 — 8.7
Compressive strength, N/mm2	BS 6319 Part 2:1983	Dry condition: 30-40 Wet Condition: 25-30
Adhesion strength, concrete, dry condition, N/mm2	BS 6319 Part 4:1984	5-20
Curing efficiency, %	BS 7542:1992	>55
Initial cure at 27^{0}C, for pedestrian traffic		After 24hours
Slant-shear Bond Strength, at 7 days, N/mm2	ASTM C882	>2.7 (concrete failure)
Full cure		7 Days

PACKING

CHEMTECH HYPERCREATE is available in 500 gms, 1 Kg, 5 Kg, 10 Kg, 20 Kg, 25 Kg, 100 Kg and 210 Kg.

SHELF LIFE

has a shelf life of 24 months from the date of manufacture if stored in cool and dry place in original manufacturers packing.

The information provided in this document results from our knowledge of the products and our experience. On-site results may vary, in particular according to the product application methods adopted. Where application methods not covered by this document are used, customers must request specific additional information and/or carry out a representative test before using the products. The above-mentioned information in no way constitutes a warranty relative to the use of the products. Our general terms and conditions of sale shall prevail, in any event, on the information provided in this document. Prior to application, customers and users are requested to check that they have the latest version of this document."