



FREECURE

Liquid Membrane Forming Compound For Curing Concrete

SCOPE

Concrete is the most versatile construction material and is widely used in a variety of constructions. However, along with correct composition and preparation, it is essential to carry out proper curing of concrete in order to realise its advantages.

Common method of curing such as, continuously spraying water on concrete surface and ponding etc. are in convenient and also expensive. Evaporation of water from concrete will deprive it of its much needed water for hydration resulting in capillary-type pores, lower compressive strengths, chipping off on the surface and development of surface cracks.

Liquid membrane – forming, concrete curing compound is based on the principle that concrete has enough water for uninterrupted hydration.

DESCRIPTION

“FREECURE” is a membrane forming, ready to use, *white* colour emulsion of specially blended synthetic waxes, complying with ASTM C309-86.

USES

For application on freshly cast concrete or newly exposed concrete surface after removal of formwork, to form a temporary membrane which will retain sufficient moisture for effective curing to take place. The membrane eventually break down and disintegrate after which the surface can be painted. It is used for concreting generally, but especially useful for large areas of concrete such as pavements, runways, bridge decks and industrial floors also for vertical or sloping surface as on chimneys, towers, silos, canal lining, columns and beams where water curing is difficult or unreliable.

- Single application-forms moisture barrier for whole of curing period.
- No other curing necessary-eliminates using of water, hessian or sand completely.
- Reliable-no risk erratic or poor curing and ensures cement hydration efficiently.
- Increase strength- gives rise to about 12-15% higher strength than water cured concrete.
- Ensures hard wearing surface-minimises risk of drying shrinkage, cracks and dusty surface.
- Protection against a ‘burning’ of the fresh concrete surface, which is exposed to strong solar radiation, further protects concrete surface against influence of aggressive atmospheric conditions.
- Easy and safe application, non-toxic and non-inflammable.
- Eco-friendly.

RECOMMENDED SYSTEM

One full coat until a continuous, uniform film has been achieved

Colour	.	Bulk liquid-white Dry film-translucent
Temperature	.	May be applied at temperature range of 2 °C to 50 °C
Flash point	.	Not applicable
Specific Gravity	.	1.0 ± 0.02
Thinning	.	Not required
Coverage/Dose Rate	.	4-6 m ² /litre
Drying time	.	Approx. 90 min. at 30 °C
Toxicity	.	Non toxic
Testing	.	Exceeds requirements of ASTM C-309-86 for moisture retention in liquid membrane curing compound.

APPLICATION

“FREECURE” should be applied following the final finishing operation and immediately after the disappearance of water seen from concrete surface. It is important not to apply “FREECURE” when standing water is still present on concrete. If the concrete has already lost some of its surface water then it is recommended to fog down the surface before application of “FREECURE”.

APPLICATION EQUIPMENT

Low pressure spray, roller equipment most preferred and generally used is a knapsack sprayer of the type commonly used in horticulture or pest control while spraying, the distance between the sprayer and the concrete surface should be approximately 1 m. Thus an uniform coating is guaranteed. It should be made sure that the spraying is properly carried out.

CLEANING

Immediately after use the equipment should be cleaned out thoroughly with fresh water.

“FREECURE” is available in 25 and 200 ltrs drum.

“FREECURE” has a self-life of minimum 12 months when stored ambient temperature. Container should be kept air tight to prevent surface evaporation. Prolonged exposure to direct heat or direct sunlight must also be avoided.

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

