

Carbolink's Solutions for Waterproofing

AT 111C



**Waterproofing Product
Specifications & Technical
Data Sheets(TDS)**

**India's Most Preferred
Construction Chemical Manufacturing Brand**



Carbolink India Pvt. Ltd.

WWW.CARBOLINKINDIA.COM



Carbolink India Pvt. Ltd. COMPANY PROFILE



For years, Carbolink India has been the Quality Leader in offering excellent Construction Chemical Products with Supreme Quality and Reliability.

Carbolink India Manufactures Industrial Flooring(Epoxy & PU Flooring), Decorative Flooring, 3D Flooring, Waterproofing Systems, corrosion protection, wood coatings, etc. which cater specifically to the Indian climate. With manufacturing facility in India, Carbolink India manufactures and supply Materials all through the country. Carbolink's commitment to customer service and technical support is the best. We work closely with architects, structural engineers, contractors and owners to best understand their requirements. Together we develop a best solution for a construction project, adding value and becoming more than just a materials supplier, but a solution provider.

With the support of our multinational manufacturing group, Carbolink India today has support centers across the country, strategically placed to provide consistent high standards of product and service.

Our Product Range:

- Anti Corrosive Coatings
- Car Park Flooring
- Curing Compounds
- Decorative Flooring
- Floor Hardner
- Grouts & Anchors



- Industrial Flooring
- Repairing Compunds
- Sealants
- Sports Flooring
- Tiling Products
- Wood Coatings



Waterproofing

Waterproofing is the process of making an object or structure waterproof or water-resistant, so that it remains relatively unaffected by water or resisting the ingress of water under specified conditions. Such items may be used in wet environments or under water to specified depths.

Water resistant and waterproof often refer to penetration of water in its liquid state and possibly under pressure, whereas damp proof refers to resistance to humidity or dampness. Permeation of water vapor through a material or structure is reported as a moisture vapor transmission rate.

Waterproofing is used in reference to building structures (such as basements, decks, or wet areas), watercraft, canvas, clothing (raincoats or waders), electronic devices and paper packaging (such as cartons for liquids).

Carbolink manufactures a full range of world class Waterproofing systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Waterproofing Solutions.

Here is our Technical Description of AT 111C :





AT 111C

Crystalline Capillary Waterproofing

FEATURES

Suitable for sewage treatment and water treatment plant, water tanks, concrete pipes and manholes
Deeply penetrates and seals the substrate
Single component system, no addition of liquid component except water at site
Suitable for external and internal application
Toxic free - Providing protection against corrosive waterborne salts
Can be left exposed

DESCRIPTION

AT 111C is a single component polymer modified cementitious waterproofing compound. The mixed slurry has excellent adhesion with concrete / sand cement screed. During application it seals the hairline cracks caused by shrinkage or expansion.

AT 111C penetrates into the pores of the substrate by capillary action and is channelled to the lower depths of the concrete by the moisture that is present, this occurs even in the smallest pores and capillaries. The reaction between moisture and the active AT 111C chemicals creates a continuous barrier of insoluble crystals. The crystal formation follows the water back as far as it is present in the structure. The capillaries are permanently blocked to the passage of water however vapour may pass allowing the structure to breathe.

Rate and penetration of crystal formation depends on the presence of free lime and the density of the concrete. Old concrete may have no free lime present and this needs to be determined prior to application.

AREAS OF APPLICATION

Basements, Retaining walls, Wet areas, Balcony, Roof terrace areas and Water tanks etc.

STANDARD

AT 111C conforms to the Overall Migration Standards laid down in 21 CFR 175 - 300 (April 1, 2011) of US - FDA for intended use for contact with potable water.

SURFACE PREPARATION

The substrate must be dry, hard, sound and free of dust and other barrier materials such as paint, wax, polish, lime coatings, plaster, curing agents, laitance, adhesive residues etc., which will inhibit adhesion to the substrate. New substrate shall be allowed to cure and dry as per standard procedure.

NOTE: Any joints in the substrate where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface. All cracks, pipe penetration, construction joints, bore packing, corners etc., shall be treated as per CLI specification prior to application of AT 111C. New concrete should be allowed to cure for at least 28 days.

MIXING

Mix 20 kg AT 111C with 6.70kg of water using suitable slow speed spiral drill to get brushable consistency. Pre wet the surface prior to the application. Apply the slurry compound on prepared surface using brush or roller. The surface shall be protected from foot traffic for 48 hours or heavy traffic / water tanks for 7 days.

APPLICATION

Once the surface is ready pre wet the surface using water and apply 1 coat of the waterproofing slurry.

1st Coat - Powder : Water
3 : 1

Apply the second coat of waterproofing slurry by brush / roller / broom in opposite direction with respect to the 1st coat.

2nd Coat - Powder : Water
3 : 1

CURING

AT 111C system application must be kept moist for a minimum of 48 hours. After Initial set, moist curing, using continuous water spray is recommended.

CLEANING

Wash hands, brush, rollers, etc. with water while the membranes is still fresh.

PROPERTIES

The values shown are typical of results obtained in the laboratory at $27 \pm 1^\circ\text{C}$. Actual performance values obtained on site may vary from those quoted.

PHYSICAL PROPERTIES

AT 111C	@ $27 \pm 1^\circ\text{C}$
Mixed material density	1.75 - 1.85 g/cc
Recoating time	6 - 8 hours
Pot life	30 minutes
Depth of penetration	22mm
DIN 1048 part 5	
Full cure	48 hours
VOC Content	4.29g/L

COVERAGE ESTIMATES

Spillage of any of the component products should be removed with plenty of water. Disposal of such product or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITIONS OF SALE

Pack size	Coverage
20kg	Approximately 13 - 16.50m ² per two coats @ 150 - 200 microns thickness

NOTE : These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

STORAGE AND SHELF LIFE

AT 111C should be stored under the same conditions as cement; store in cool, dry shaded warehouses. AT 111C should not be stored in direct contact with the floor. When stored under the correct conditions will have a shelf life of 12 months.

PRECAUTIONS

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

DISPOSAL / SPILLAGE

Spillage of any of the component products should be removed with plenty of water. Disposal of such product or empty packaging should be in accordance with local waste disposal authority regulations.

CONDITION OF SALE

Sold subject to the Company's conditions of sale which are available on request.

NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

**India's Most Trusted
Construction Chemical Manufacturing Brand**



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