

Carbolink's Solutions for Waterproofing AT 109C



Waterproofing Product Specifications & Technical Data Sheets(TDS)

India's Most Preferred
Construction Chemical Manufacturing Brand



Carbolink India Pvt. Ltd.

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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 109C :





AT 109 C

Water Based Epoxy Bonding Bridge

FEATURES

- Water Based Epoxy Bonding Bridge
- Penetrating Structural Sealer
- Forms a structural bond between new and old concrete
- Can be applied to damp surfaces
- Compatible with fresh cement or concrete products
- Excellent adhesion to most substrates

DESCRIPTION

AT 109 C is a two component water based epoxy unpigmented new to old concrete bonding bridge and admixture for cement based materials and structural penetrating sealer.

- Non-flammable and negligible odour.
- Convenient equal part-mixing ratio.
- Surface tolerant.
- Water thinned and clean up.

FEATURES / BENEFITS

A relatively high solids product specifically designed as a high strength bonding bridge for bonding new render or concrete to aged concrete substrates. AT 109 C is also used as an epoxy admixture for cementitious products used for concrete repair. When thinned 50% with water it forms a structural penetrating sealer.

- Forms a structural bond between new and old concrete.
- Can be applied to damp surfaces.
- Is compatible with fresh cement or concrete products.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber.

TYPICAL APPLICATIONS

- As a new to old concrete bonding bridge to substantially improve the bonding characteristics.
- As an admixture to cement to produce variable strength repair mortars and waterproofing grouting material.
- As a concrete curing membrane to contain the water and as an aid to the curing of and sealing of concrete.

LIMITATIONS

The product should be applied whilst the surface temperature is between 10° - 35°C. The product will cease to cure below 10°C, but will recommence curing when the temperature rises above 10°C. Curing time will also be adversely affected in situations where relative humidity is > 85%.

Good ventilation should be provided during curing cycle. Will turn yellow when exposed to ultra violet light for extended periods.

The cured coating will form a glazed chemically resistant surface finish which must be well sanded to produce a course surface profile prior to adhering any product to the cured film. When used as a penetrative sealer the surface may darken slightly with age.

BASIC APPLICATIONS INSTRUCTIONS

Surface Preparation

All surfaces to be treated must be structurally sound, all previous coatings should be removed and the surface cleaned free from contaminants.

Installation

Each component should be individually mixed to form homogeneous components. Thoroughly mix the two components in the ratio of 1:1 by volume, preferably using a power stirrer, until a homogeneous mix is obtained. Only mix as much as be used within the pot life of the product and avoid excessive aeration during mixing.

Application as a New To Old Concrete Bridge

Apply one coat by brush, roller or spray to a section of the area to be treated at a coverage rate of 7 square metres per litre. Only apply the Bonding Bridge to an area to which the new render or concrete can be placed while the bonding bridge remains wet or tacky.

Immediately following application of the AT 109 C, place the new render or concrete and finish as required. Repeat the process until the full area to be treated is complete.

Application as Concrete Repair Mortar

After mixing the WPM AT 109 C mix with an equal volume of cement and add a fine particle grade river washed sand to achieve the desired working consistency (normally 2-3 times the volume of cement added).

During trowel finishing of the concrete repair mortar, use a wet trowel to avoid drag-up and to obtain a smooth finish.

Application as Concrete Curing Membrane

Apply one coat by brush, roller or spray at a coverage rate of 3 square metres per litre. Note that surfaces must be sanded in the event of application of coatings or adhesives after the film has cured.

SAFETY PRECAUTIONS

AT 109 C Part A and Part B are hazardous goods and may cause sensitization by skin contact. They are harmful by inhalation, in contact with skin and if swallowed. They are irritating to eyes and skin. Keep containers tightly closed and in a well ventilated place. Take off immediately all contaminated clothing. Avoid contact with skin and eyes. It is recommended that protective gloves be used during application.

PACK SIZE

20 Kg
Part A : 10 Kg
Part B : 10 Kg

STORAGE AND SHELF LIFE

AT 109 C has a shelf life of 12 months when stored in original unopened container.

CLEANING UP & DISPOSAL

Thinning is not recommended when using this product for the applications described. Wash all equipment in water or water/detergent immediately on completion of work since AT 109 C will cure underwater if equipment is left.

TECHNICAL DATA

	Bonding Repair	Curing Bridge	Mortar Membrane
No. of Coats	1	n/a	1
Coverage (m/ltr)	7	n/a	3
(m/L of 6mm topping)	n/a	0.6	n/a
Pot Life (hrs @ 25°C)	1	—	1
Cure Time (@25°C)			
Hard Dry (hrs)	24	24	24
Full Cure (days)	7	7	7
Bond Strength (Mpa)	5	n/a	5
VOC Content	18g /L		

Note: The Concrete Repair Mortar must be installed over the New to Old Concrete Bonding Bridge.

DISCALIMER

The technical details recommendations and other information contained in this data sheet are given in good faith and represent the best of our knowledge and experience at the time of printing. It is your responsibility to ensure that our products are used and handled correctly and in accordance with any applicable Standard, our instructions and recommendations are only for the uses they are intended. We also reserve the right to update information without prior notice to you to reflect our ongoing research and development program.

The supply of our products and services are also subject to certain terms, warranties and exclusions, which may have already been disclosed to you in prior dealings or are otherwise available to you on request you should make yourself familiar with them.

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



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