

Carbolink's Solutions for Waterproofing

AT 107



**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 107 :





AT 107

Water Based Epoxy Sealer

FEATURES

- Can be applied to wet or damp surfaces free from running or ponding water
- Can be safely applied to freshly laid hardened (green) concrete
- Tolerant to improperly prepared surfaces
- Seals and binds dusty or loosely bound surfaces
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber

DESCRIPTION

AT 107 is a two component water based epoxy Phenalkamine unpigmented sealer, binder used for sealing surfaces and providing a strong bond to difficult or improperly prepared surfaces.

FEATURES / BENEFITS

- Can be applied to wet or damp surfaces free from running or ponding water.
- Can be safely applied to freshly laid hardened (green) concrete.
- Consolidates weak or rain affected concrete surfaces to form a firm substrate for subsequent treatments.
- Has good penetration, even into fine grained substrates such as high strength concrete.
- Tolerant to improperly prepared surfaces.
- Seals and binds dusty or loosely bound surfaces.
- Has excellent adhesion to most substrates including brick, masonry, concrete block, concrete, compressed fibreboard, stone and timber.
- Non-flammable & negligible odour.
- Convenient equal-part mixing ratio.
- Water thinned and clean up.
- Safe to use in sensitive locations (e.g. around food or habitable areas).

TYPICAL USES

- As a penetrating sealer to achieve bonding to high strength concrete or other fine textured surfaces.
- As a consolidation sealer for weak aged concrete prior to over coating with other covering or coating systems.
- As a bonding coating for surfaces where there is a risk of grease or oil in the surface.
- As a consolidation sealer for rain affected concrete to form a film substrate.
- As a waterproofing sealer for concrete, masonry, brickwork, fibre cement, plywood and particleboard in wet areas.
- As an industrial dust suppressant and sealer for warehouse and factory floors where colour is not critical.

LIMITATIONS

- Should not be applied when the surface temperature is below 8°C or above 35°C or when the relative humidity is above 90%.
- The curing reaction of AT 107 will cease at temperatures below 8°C and recommence slowly and get progressively faster as the temperature rises above 8°C.
- Good ventilation should be provided, either naturally or artificially, during the drying and curing cycle.
- Is not stable under ultra-violet unless under water.
- Is only trafficable when used as a sealer.
- Do not sandwich water or solvent based adhesives between AT 107 (or any other waterproof membrane) and low permeability floor coverings. The covering should be sufficiently permeable to allow the water or solvent to escape through the covering. Use of cement based ceramic tile adhesives is satisfactory as the cement consumes the water in reaction.

IMPORTANT

When using as a penetrating sealer prior to application of other coatings care should be taken to only apply sufficient material as is required to penetrate the substrate. If a glazed surface results it should be sanded before proceeding with other coatings.

Alternatively, allow the AT 107 about 1½ hours to penetrate and overcoat with a thin coat of AT 108 Water Based Epoxy Membrane at a coverage rate of 10 square metres per litre.

SURFACE PREPARATION

All surfaces to be treated should be structurally sound and thoroughly cleaned free from all surface contaminants. All existing coatings should be removed prior to the application of AT107 and the pores of the concrete opened as far as possible by high pressure water blasting or abrasive blast cleaning. All concrete curing membranes or form release agents must be thoroughly removed prior to application of AT 107.

APPLICATION

Each component should be individually mixed to form homogeneous components then 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 may be used within the pot life of the product and avoid excessive aeration during mixing.

Once the components are mixed apply using brush, roller or spray application technique. When using brush or roller, work the product well into the surface. Take particular care not to apply excessive product as this will result in a film being formed over the surface, which will glaze and results in poor adhesion of subsequent coatings.

If a glazed surface results it must be sanded before proceeding with other coatings or adhesives.

To avoid obtaining this glazed surface, allow the AT 107 to penetrate for 60-90 minutes before applying a thin coat of CLI AT 108 Water Based Epoxy membrane at a coverage rate of 10 square metres per litre. when using as an industrial sealer and dust suppressant, two coats are normally required and it is preferable to apply the second coat after 60-90 minutes and in any event within the same day.

When applying as a bond coat to improperly prepared surfaces or surfaces that may have some grease or oil contamination, the surfaces should be first high pressure detergent washed and fresh water rinsed. The excess surface water should be removed using a squeegee and the WPM 200 applied immediately while the contaminants remain forced deep into the matrix of the substrate.

CLEANING

Thinning is not normally required other than for very fine grained substrates such as high strength concrete when the product may be thinned up to 20% with fresh clean water. Wash all equipment in water or water/detergent immediately on completion of work since AT 107 will cure underwater if equipment is left.

PACK SIZE

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

STORAGE AND SHELF LIFE

AT 107 has a shelf life of 12 months when stored in original unopened container. Store in a dry place at 30°C. Protect liquid from frost, do not allow to freeze. Replace lid tightly after use.

TECHNICAL DATA

Colour	Red coloured transparent
Finish	Clear gloss, which darkens and goes to mat on aging
Volume solids	22 + 2%
Mixing ratio	1:1 (Part A / Part B) by volume
Pot life	4 hours @ 25°C
Typical Coverage	8 -14 m ² / litre / coat depending on the porosity of the substrate
Typical no. of coats	1-2 depending on purpose of application
Recoat time	1½ hours @ 25°C & 50% R.H.
Full cure	7 days @ 25°C & 50% R.H.

SAFETY DATA

AT 107 is classified as non-toxic, nonflammable and non-explosive. Avoid contact with skin and eyes and avoid breathing vapour or spray mist. Wear eye protection and protective gloves when mixing and using.

DISCLAIMER

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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