

**Carbolink's Solutions for Waterproofing**

**AT 108**



**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 108 :





## AT 108

# Water Based Epoxy Membrane

### FEATURES

Water resistant, prevents rising damp, efflorescence and withstands hydrostatic pressure  
Excellent adhesion to most substrates including damp surfaces and freshly laid green concrete  
Safe to use in sensitive locations

### DESCRIPTION

AT 108 is a two component water based epoxy membrane/ barrier coating. Approved for use with potable (drinking) water, independent testing confirms conformity with the requirements of AS4020.2000 and BS6920.

### FEATURES / BENEFITS

- Non-flammable and negligible odour.
- Can be applied to damp surfaces.
- Can be safely applied to freshly laid hardened (green) concrete.
- Conforms to requirements of the:

### TYPICAL APPLICATIONS

- As a low water vapour transmission coating in the building and construction industries and as a barrier/seal coating over freshly laid or damp concrete.
- As a hydrostatic pressure resistant waterproofing membrane to prevent water seepage or dampness penetration through to the interior of walls and floors.
- As a waterproofing barrier on the negative side in below grade surfaces such as basements, tunnels, liftwells, retaining walls and carparks.
- As a waterproofing membrane or barrier coating over freshly laid hardened (green) concrete, prior to the application of conventional levelling compounds, carpet and tile adhesives.
- As a waterproofing membrane in tanking applications, including potable water containment.
- As a barrier seal coating over damp, green or efflorescence producing concrete prior to overcoating with conventional building paints.

### LIMITATIONS

Tiling can commence after 24 hours cure of AT 108 although should not exceed a maximum of five days. Installer is to ensure that there is no surface contamination during this period.

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

In enclosed areas, ventilation must be provided during curing cycle to enable adequate evaporation of the water. Care should be taken when sandwiching adhesives between AT 108 and floor coverings to ensure the water vapour transmission of the covering is sufficient to allow the solvent to escape.

Aqua Seal is not classified as a trafficable membrane.

### BASIC APPLICATIONS INSTRUCTIONS

#### Surface Preparation

All surfaces to be treated must be structurally sound; and existing coatings, adhesives, efflorescence should be removed to achieve maximum bond strength and resistance to hydrostatic pressure. Surfaces must be cleaned free of dirt, grease, oil, or other surface contaminants.

Holes, non-structural cracks or other surface deformities should be filled with an CLI Crete Bond (ECO) sand/cement mortar, AT 108 epoxy mortar or CLI concrete repair systems and allowed to cure for 2 - 3 hours before coating is applied.

#### Installation

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

When the product is to be applied to dry concrete it is advisable to wet the surface with a fine mist of water before application and allow to just surface dry.



Floors—Spread the material using a squeegee or stiff nylon broom to achieve coverage and finish using a long nap roller.

Walls—Apply the product by roller or spray taking care to achieve required coverage. Care must be taken to work the material into the surface to fill voids and avoid pinholing. A minimum of one coat for efflorescence and rising damp, two coats for waterproofing and waterproofing negative side walls is recommended and care should be taken to ensure uniformity of material and the required coverage is maintained. When finishing it is necessary to lay the material onto the surface and lightly finish to achieve the required dry film thickness per coat

The final coverage rate for all surfaces should be a total of 1.5 square metres per litre (3.0 square metres per litre wet applied per coat) to achieve optimum properties. In the event that this coverage rate is not achieved in two coats, further coats should be applied to achieve a total uniform coverage rate of 1.5 square metres per litre.

Allow to cure for 24 hours before applying water based adhesives, mortars, levelling compounds, decorative coatings or other surface treatments. Care is necessary to ensure the waterproofing membrane coating is not damaged in any way during subsequent treatments.

### TILING APPLICATIONS

Substrates such as screeds and renders should be normally allowed to dry for 7 days prior to the fixing of ceramic tiles. Alternatively Aqua Seal can be applied in one coat by brush or roller application at a coverage rate of 3m<sup>2</sup>/L. Whilst the coat is wet, clean dry sand of 0.5mm diameter shall be broadcast over the surface at a rate of 700g/m<sup>2</sup> to achieve at least 90% coverage. After overnight cure the excess sand shall be swept and vacuumed from the surface.

### FLOORING APPLICATIONS

Where concrete subfloors are damp (moisture content exceeds 5.5% or have a relative humidity of 70%) Aqua Seal can be applied as a moisture barrier. Two coats are applied at 3.0 square metres per litre per coat. The second coat can be sand seeded as is done for tile applications, or left neat and CLI N16 Primer primer applied before the smoothing cement. A single coat of AT 108 applied at 2.5 square metres per litre per coat acts as a moisture stop for 'green concrete' not subject to rising damp or permanent moisture.

### PACK SIZE

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

### SAFETY PRECUTIONS

AT 108 is hazardous and may cause sensitisation by skin contact. Keep containers in a well ventilated place and tightly closed. Take off immediately all contaminated clothing. In case of eye contact, rinse with plenty of water and contact Doctor or Poisons Information Centre. If swallowed immediately contact Doctor or Poisons Information Centre. Avoid release to the environment.

### STORAGE AND SHELF LIFE

Aqua Seal has a shelf life of 12 months when stored in original unopened container. Store in a dry place at 30°C and 50% relative humidity. Protect liquid from frost, do not allow to freeze. Replace lid tightly after use.

### THINNING AND CLEAN UP

The first coat should be thinned with water, as required depending on the porosity of the surface to be coated (up to 20% for dense surface to 5% for more porous surfaces) to ensure optimum penetration. Thinning of the second coat should be avoided since this increases the difficulty in achieving the required dry film thickness. Wash all equipment in water or water/detergent immediately on completion.

### TECHNICAL DATA

Colour	Grey
Finish	Semi-gloss going to matt with aging
Volume solids	44%
Mixing ratio	Coverage Must be applied at a rate of 1.5 square metres per litre (3.0 square metres per litre per coat) to achieve an effective waterproofing membrane 1:1 (Part A:/Part B) by volume
Wet Film Thickness	300 microns per coat
Recoat time	4 hours @ 25°C, 50% RH
Full cure	7 days @ 25°C, 50% RH
Pot life	2 hours @ 25°C 1 hour @ 35°C
VOC content	26g/L

The recommended wet film thickness specified produces a nominal dry film thickness of 150 micrometers (0.15mm) per coat or 300 micrometers (0.3mm) for two coats. The apparent dry film thickness will reduce depending on the porosity of the substrate, however the product absorbed by the substrate forms part of the waterproofing function.

**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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