

**Carbolink's Solutions for Waterproofing**

**AT 105**



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

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



**Carbolink India Pvt. Ltd.**

[WWW.CARBOLINKINDIA.COM](http://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 105 :





## AT 105

### External Anti - Carbonation Facade Membrane

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#### FEATURES

- External anti-carbonation façade membrane
- Semi-permeable membrane – allows wall surface to breathe
- Contains fungi and algae growth inhibitors
- Provides excellent UV resistance and long term protection from elements
- Water based, safe to use, low odour and easy cleaning
- Decorative – choice of colours

#### DESCRIPTION

AT 105 is an extremely weather resistant water based acrylic waterproofing membrane. Specially designed as an exposed facade membrane, AT 105 prevents moisture, chloride ion and carbon dioxide entering and damaging the building structure while still allowing the substrate to breath.

AT 105 is also highly resistant to dirt retention, as well as containing fungi and algae growth inhibitors. The product's flexibility and high build qualities allow it to be applied over hairline cracks.

AT 105 is water based, low in odour and is available in a range of decorative colours.

#### FEATURES / BENEFITS

- Highly flexible & durable
- Self cleaning, low dirt retention
- Resists fungi & algae growth
- Large range of durable colours.
- Vapour permeable (allows facade substrate to breath).
- Prevents chloride ion, sulfide ion and carbon dioxide attack.

#### ACCEPTABLE SUBSTRATES

After appropriate surface preparation:-

- Rendered walls
- Brick/masonry walls
- Fibre cement sheets
- Tilt up and pre-cast concrete
- Light weight aerated concrete blocks(eg CSR Hebel)

#### TYPICAL APPLICATIONS

- Building facades and external walls.
- Roof parapets.
- Silos, lighthouses and other external structures.
- Particularly important in coastal areas, high traffic density areas for application over concrete and brick surfaces.

#### LIMITATIONS

Product should not be used in trafficable areas. Other AT 105 products are more suitable for this application. Do not apply AT 105 if the surface temperature is below 10°C or above 35°C. Do not apply if rain is imminent.

#### BASIC APPLICATION INSTRUCTIONS

##### Surface Preparation

The surface to be coated should be clean, sound, and free from oil, grease, form release agents or bondbreakers and other contaminants. All areas of loose or flaking paint must be removed to a firmly bonded substrate. Concrete surface pores must be open to enable good adhesion.

##### Cracks and voids

AT 105 can be applied directly over hairline cracks. All other cracks should be treated with a neutral cure silicone. Other deep surface imperfections should be repaired using CLI concrete repair mortars allowed to cure for 7 days before applying the membrane. Refer to CLI Central Technical Service Department for advice regarding areas of concrete spalling. Irregular surfaces resulting from peeled paint should be smoothed using CLI concrete repair systems.

## Priming

All prepared surfaces should be primed with one coat of CLI 270 Solvent Based Primer at a rate of 6m<sup>2</sup> per litre. AAC (Hebel) or other highly porous surfaces may require two coats. Allow primer to be dry before applying the membrane (approx. 30 minutes).

## Application of AT 105

Apply with nap roller, textured roller or paint brush. Ensure that the coating is applied evenly at the recommended coverage rates.

Apply the first coat of AT 105 at a rate of 1 litre per 2.8m<sup>2</sup> to achieve a wet film thickness of 0.35mm, and allow it to dry.

Apply the second coat at approximately the same rate to achieve a final dry film thickness of around 0.35mm.

## PACK SIZE

15 Litres

## COVERAGE

Coverage: 1 x 15 litre unit of AT 105 will cover approximately 20m<sup>2</sup> (at a dry film thickness, after two coats, of 0.35mm).

## SAFETY PRECAUTIONS

AT 105 is non-hazardous; non-dangerous goods. Do not breath gas/ fumes/ vapour/ spray. Avoid contact with skin. If contact with eyes, rinse thoroughly with water.

## STORAGE AND SHELF LIFE

The shelf life of AT 105 is 12 months in the original unopened packaging when stored in a cool, dry and well ventilated area. Keep containers securely sealed. DO NOT allow to freeze. Do not store in direct sunlight. Replace lid tightly after use. Product should be used within 6 months of the container being opened.

## CLEAN UP & DISPOSAL

Clean all equipment with water prior to the product drying. Dispose of containers in compliance with all relevant local authorities, state and federal laws and regulations.

## TECHNICAL DATA

Colour	Available in selected colour range
Specific Gravity	1.3Kg/L
Application Temperature	10°C - 35°C
Drying time: (25°C/50% RH)	
Surface Dry	2 hours
Recoat	4 hours
Hard Dry	7 days

Lower temperature and higher humidity will prolong drying

Carbon dioxide diffusion rate/sulfur dioxide	124 m
Kopfler criterion (Min reqd. R>50m)	
Water vapour transmission (ASTM E96-94)	39.8 g/m <sup>2</sup> /24hrs
Kopfler criterion (Max reqd. Sd<4m)	1.1 m
Chloride ion diffusion rate (as per TEL procedures)	7.7x10 m <sup>2</sup> /sec
VOC content	61g/L

## 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 Australian Standard, our instructions and recommendations and 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.

Country specific recommendations, depending on local standards, codes of practice, building regulations or industry guidelines, may effect specific installation recommendations. The supply of our products and services is 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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