

Carbolink's Solutions for Waterproofing Crete Bond (Eco)



**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 Crete Bond (Eco) :





CRETE BOND (ECO)

High Performance Polymer Additive For Cement and Concrete Mixes

FEATURES

- High Performance Polymer Additive for Cement and Concrete Mixes
- Water resistant - used as a temporary waterproofing sealer on rooftops
- High strength - ideal for patching, can be feathered out with minimal cracks
- Non-toxic - Does not cause Occupational Health & Safety concerns

DESCRIPTION

Crete Bond (ECO) is SBR, multipurpose, concentrated, liquid polymer additive which when used with sand/cement, greatly improves the bond strength and flexibility. Being water resistant, Crete Bond (ECO) mixed with cement can be used as a water proofing sealer. It can also be used as an admix for renders/screeds imparting high bond strength and flexibility. Crete Bond (ECO) can be applied to damp surfaces (not wet) and can be rendered or painted over.

FEATURES / BENEFITS

- Water resistant: can be used as a temporary waterproofing sealer on rooftops etc.
- High strength: ideal for use in patching mortars as it can be feathered out with minimal cracks, and also for use in coving areas.
- Non-toxic: does not cause occupational Health & Safety concerns.
- Reduce the cement : water ratio, which results in a stronger mortar/screed.

TYPICAL APPLICATIONS

- As a temporary waterproofing sealer in high exposure areas such as rooftops, While new waterproofing membrane is being installed. When used under sheet membranes, it limits gassing.
- As a slurry coat prior to applying renders or toppings.
- As an admix for sand/cement mixes especially in repair mortars, fillets, covings, renders and screeds.
- As a bonding bridge for new to old concrete.

LIMITATIONS

- Do not use Crete Bond Eco mortar to tile over concrete slabs subject to rising damp or hydrostatic pressure without first priming with CLI AT 108 Water based epoxy membrane in two coats at a coverage rate of 3 square metres per litre per coat. Refer to the CLI AT 108 Water based epoxy membrane data sheet for screed installation details.
- Protect Crete Bond Eco liquid from frost - do not allow to freeze.
- Do not apply Crete Bond Eco as a temporary waterproofing sealer if rain is imminent.
- Do not apply if the surface temperature is below 10°C or above 35°C.

BASIC APPLICATIONS INSTRUCTIONS

Surface Preparation

The surface to be treated should be clean, sound, free from oil, grease, laitance etc. New concrete should be allowed to cure for at least 28 days prior to application of Crete Bond (ECO) water resistant or binder coat. New brickwork walls, sand/cement render or screeds should be left for at least 7 days before application of the Crete Bond (ECO) water resistant or binder coat.

MIXING

Temporary Waterproofing : 1 part Crete Bond (ECO) : 2 parts cement, (by volume).

Admix for render / screed / coving : Mix 1 Part Crete Bond (ECO) with 3 parts water and use as the gauging mix (mixing water) with a 3 : 1 or 4 : 1 sand / cement mix.

Binder coat : 1 part Crete Bond Eco : 1 part water : 4 parts cement (by volume).

APPLICATION

Temporary Waterproof

MIX Crete Bond (ECO) with fine cement to a lump free consistency. Pre-moisten the concrete then apply a first coat using a brush or roller to achieve 1 mm wet bed thickness. Allow first coat to set, then apply second coat at right angles to the first application to ensure no pin-holing occurs.

Slurry Coat

Mix to a thin binder and spread the mix over the surface with brush or roller, or small broom. Maximum thickness recommended is 2mm. While the binder coat is still wet, apply render or screed over it.

Render / Coving

Apply binder coat on the prepared surface. While the binder coat is wet apply the Crete Bond (ECO) mortar mix with a wood float trowel, ensuring firm pressure on the trowel to work the render into good contact with the surface.

Screed

A minimum thickness of 15mm is recommended when using diluted Crete Bond (ECO) instead of water. For a thickness greater than 40mm, reinforcing mesh is required.

Using a roller, brush or a flat trowel, coat the prepared area with a binder coat of Crete Bond (ECO) to improve adhesion to the substrate.

Apply the screed mix whilst the binder coat is still wet using a straight edge, trowel or timber batten to level the screed. Achieve falls in shower recesses to a minimum 1:60: internal wet areas (eg bathrooms) to a minimum of 1:80: and external areas to a minimum of 1:100.

Screeds should be left with a wood float finish to create a key for tiling and waterproofing. When reinforcing the screed with mesh, apply first layer of screed, lay in the mesh and apply the second layer of the screed. Do not lay the mesh directly onto the substrate.

DRYING TIME

Approximately 16 hours (overnight) at 23°C and 50% relative humidity when used for water resistant or render/screed.

CLEANING

Clean tools with water before the mortar dries.

PACK SIZE

20 Litres

COVERAGE

| | |
|--------------------------|-------------------------------|
| Temporary Waterproofing | 12m ² (2 coats |
| 20 litres covers | at 1mm/coat) ² |
| Slurry coat | 1 litre cover 3m ² |
| As a render (15mm thick) | 1 litre cover 2m ² |

TECHNICAL DATA

| | |
|---|--------------------|
| Form | Thin, white liquid |
| Specific Gravity | 1.0 kg/litre |
| pH | 9 - 10 |
| Tensile adhesion over concrete (7 days) | 1.5 Mpa |
| Hydrostatic pressure resistance | 50 psi (0.34MPa) |
| Flexural strength | 3.3MPa |
| As additive to screed | |
| VOC Content | 32 g/L |

SAFETY DATA

Crete Bond (ECO) is non-hazardous and non-dangerous goods. Do not breathe gas/fumes/vapour/ spray. Avoid contact with skin. Wear eye/face protection. In case of contact with eyes, rinse with plenty of water and seek medical advice. When used with mortar (which is alkaline) skin contact should be avoided. Wear gloves and protective clothing.

STORAGE AND SHELF LIFE

Shelf life is approx. 12 months when stored in the original unopened packaging in a dry place at 30°C and 50% relative humidity. Protect liquid from frost, do not allow to freeze.

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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