

Carbolink's Solutions for Grouts & Anchors

EP 310



**Grouts & Anchors 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



## Grouts & Anchors

Cement and Epoxy resin grouts for construction applications including grouting baseplates, machine bases, rails and all sorts of voids in new construction and repair work.

With exceptional flow, stability and strength characteristics, our grouts provide the best solution for high precision and critical applications, together with a wide range of cement and resin based anchoring systems. The range of grouts and anchors is tested and outperforms industry laid norms and standards.

Utilizing our extensive range of products, combined with the expert knowledge and experience of our people, Carbolink strives to deliver an innovative and value-driven solution. Always in constant consultation with our customers, Carbolink will develop a tailored solution for any construction project, adding value and becoming more than just a materials supplier.

Carbolink manufactures a full range of world class Grouts & Anchors systems providing the most up-to-date technologies. Carbolink India is a leader in tailored Griouts & Anchors Solutions.

Here is our Technical Description of EP 310 :





# EP 310

## Polyester Resin Anchoring Grout

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### FEATURES

- Shrink-free
- Excellent strength
- Vibration resistance
- Resistance to heavy loads
- Corrosion resistance
- Easy to apply

### DESCRIPTION

EP 310 is a specialist anchoring grout which combines, outstanding durability and anchoring properties. This anchoring grout is stronger than the concrete. It is used for anchoring reinforcing bars, dowels, holding down bolts as well bedding, jointing and re-profiling concrete. It can be used where the hole and bar diameter is less than or equal to 25mm and also used to repair larger voids-where fast strength gain is important.

### SURFACE PREPARATION

The substrate must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues etc., which will inhibit adhesion to the substrate.

Use a suitable degreaser to remove polish, wax, grease, oil and similar contaminating substances prior to the application of EP 310.

NOTE: Any joints or cracks in the substrate where differential movement is anticipated e.g. movement joints, should be brought through to the finished surface.

### MIXING

The individual contents of the EP 310 should be thoroughly stirred before being mixed together. The entire contents of the Part A should be poured in to a larger mixing vessel to incorporate the Part B. Mix thoroughly for one minute using forced action. Ensure smooth mixing. Finally the Part B is added to the same container. The mixing of all the two should continue for further two minutes to create consistent homogenous mix.

### APPLICATION

The mixed material should be poured to the prepared substrate without delay. Bar should be fix into the hole immediately after the grout is poured, slight twisting action is required for full contact of grout to bar for maximum bonding.

NOTE: Do not overwork the surface and do not mix more than can be used within the working time. The work area should be protected during the installation process and during the initial curing time to ensure that no airborne debris can contaminate the surface of the wet resin as this will lead to unwanted blemishes in the hardened, and cured surface. All movement joints in the substrate must be carried through the EP 310 and properly sealed.

### LIMITATIONS

EP 310 should only be applied at temperatures above 10 °C. Substrates should be dry and not affected by rising damp. Concrete or other cementitious substrates should have a surface tensile strength of at least 1.5 N/mm<sup>2</sup>.

EP 310 may be applied to substrates of a lower strength, but the long-term performance may be impaired. Once the mixed material has exceeded its pot life, the viscosity and the characteristics of the product will change and any unused product should be discarded.

### CLEANING

EP 310 can be removed from tools and equipment by using CLI N18 immediately after use. Any hardened material will need to be removed mechanically.

## PROPERTIES

The values shown are typical of results obtained in the laboratory at  $27 \pm 1^\circ\text{C}$ . Actual performance values obtained on site may vary from those quoted.

### PHYSICAL PROPERTIES

EP 310	@ $27 \pm 1^\circ\text{C}$
Pot life	50 minutes
Mixed material density	1.85 - 1.90 gram/cc
Full cure	7 days

### Compressive Strength

BS 6319-Part-2	
8 Hours	> 40 N/mm <sup>2</sup>
1 day	> 55 N/mm <sup>2</sup>
7 day	> 75 N/mm <sup>2</sup>

### PACK SIZE

1kg & 4kg

1kg	4kg
Part A : 250g	Part A : 1kg
Part B : 750g	Part B : 3kg

### YIELD

Allowance should be made for wastage when estimating quantities required.

The approximate yield per 4.0kg pack is

Consistency	Pourable
Yield	2 litres

NOTE: These figures are theoretical, due to the wastages and the variety and nature of substrates practical coverage figures may be reduced.

### STORAGE AND SHELF LIFE

EP 310 has a shelf life of 6 months if kept in a dry, store between  $5^\circ\text{C}$  and  $30^\circ\text{C}$  in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

### PRECAUTIONS

During mixing and application the following precautions should be observed: ensure adequate ventilation and avoid contact of the material with the eyes, nasal passages, mouth and unprotected skin. Avoid contact with the hands by wearing protective gloves and by using, if necessary, a suitable barrier cream.

In case of contact with the eyes, rinse immediately with plenty of water and seek medical advice and after contact with the skin wash immediately with plenty of soap and water (do not use solvents). Prolonged contact with the skin should be avoided, especially where the user has an allergic reaction to epoxide materials. Always wear gloves and eye/face protection is necessary. Observe personal hygiene, particularly washing the hands after work has been completed or at any interruption whilst work is in progress. Care should be taken when removing gloves to avoid contaminating the insides. In case of accidents seek medical advice.

### DISPOSAL / SPILLAGE

Spillage of any of the component products should be absorbed onto sand or other inert materials and transferred to a suitable disposable vessel. Disposal of such spillage or empty packaging should be in accordance with local waste disposal authority regulations.

### CONDITIONS OF SALE

Sold subject to the Company's conditions of sale which are available on request.

### NOTE

The information supplied in this datasheet is based upon extensive experience and is given in good faith in order to help you. Our Company policy is one of continuous Research and Development; we therefore reserve the right to update this information at any time without prior notice. We also guarantee the consistent high quality of our products; however as we have no control over site conditions or the execution of the work, we accept no liability for any loss or damage which may arise as a result thereof.

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



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