

Carbolink's Solutions for Grouts & Anchors

EP 320



**Grouts & Anchors Product
Specifications & Technical
Data Sheets(TDS)**

India's Most Preferred
Construction Chemical Manufacturing Brand



Carbolink India Pvt. Ltd.

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 320 :





EP 320

Solvent-free, Low Viscosity Epoxy Resin for Crack Injection

FEATURES

Excellent bond strength
High elastic modulus ensures effective transfer of stresses at bond interface
Pre proportioned to give consistent performance
Due to its low viscosity grouting can be done to air line cracks
Resistant to a wide range of chemicals and liquids

DESCRIPTION

EP 320 is a two-component, epoxy resin based crack injection system, designed for sealing cracks in concrete. It is recommended for grouting of 0.10 mm to 10 mm wide cracks, cold joints and other such undesirable cracks.

SUBSTRATE PREPARATION

The concrete surface must be hard, sound and free of dust and other barrier materials such as paint, lime coatings, plaster, curing agents, laitance, adhesive residues, etc., 2 - 3 cm on either side of the crack that will inhibit adhesion to the substrate.

Use appropriate pneumatic drills for making suitable holes and fix the nipples or injection packers. Ensure the holes are free from debris and laitance before fixing the packers or nipples.

Use suitable adhesive for fixing surface port or nipples in position. The distance of ports or the nipples depends on the crack severity and the nature of the structure but with maximum centre-to-centre distance of 800 mm. Close the whole length of crack opening using suitable adhesive.

MIXING

The individual component of EP 320 should be thoroughly stirred before being mixed together. The entire content of Part A should be poured into a large vessel so that the Part B can be accommodated. Mix the two component thoroughly to ensure a smooth and consistent mix is achieved.

APPLICATION

The mixed EP 320 is injected / grouted into cracks / joints using the suitable equipment.

The suitable equipment shall be a low pressure, air operated injection equipment or hand operated cartridge gun or a syringe depending on the location and size of the crack. Grout / inject in each port or nipple that are fixed earlier to the application.

Inject in each port or nipple (keeping all others closed except the next immediate one). When the EP 320 start coming out of the next port / nipple, close it and continue injection / grouting until the pressure is maintained for 1 - 5 minutes.

Close the port, disconnect the pump and continue this process until all the ports / nipples are injected / grouted similarly.

After 24 hours remove all the nipples / ports and fill the resulting cavity with suitable epoxy adhesive.

LIMITATIONS

Once the mixed material has exceeded its pot life the viscosity and the characteristics of the product changes and any unused product should be discarded at this time.

CLEANING

EP 320 can be removed from tools and equipment by using CLI N 18 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 320	@ $27 \pm 1^\circ\text{C}$
Appearance	Pale yellow liquid
Mixed Density	1.05 - 1.15gm/cc
Viscosity	250 ± 50 cps
Pot Life	45 Minutes
Application limits	0.1 mm - 10 mm
Tack free time	6 Hours

Compressive Strength (ASTM C579)

24 hours	>55 N/mm ²
7 days	>60 N/mm ²
Shrinkage, ASTM C881	Passes
Full Chemical Cure	7 days

COVERAGE ESTIMATES

Pack size Coverage	
1kg	The coverage
Part A 750g	depends on the
Part B 250g	substrate, width of the crack / void to be grouted, loss and
4kg	
Part A 3kg	waste and porosity of
Part B 1kg	the substrate

STORAGE AND SHELF LIFE

EP 320 has a shelf life of 12 months if kept in a dry, store between 5°C and 30°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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