



# EP 325

Solvent-free, High Viscous Epoxy Resin for Crack Injection System

Pack Size  
15Kgs & 1.5Kgs

TDS  
Technical Data Sheet



## Product Description

EP 325 is a two-component, moisture-insensitive, epoxy resin-based crack injection system designed for sealing cracks in concrete and restoring structural integrity. It is particularly effective for grouting cracks ranging from 0.5 mm to 10 mm in width, cold joints, and other similar defects in concrete structures.

## Features

EP 325 offers excellent bond strength, ensuring the restoration of structural integrity. Its high elastic modulus allows for effective stress transfer at the bond interface. The product is moisture-insensitive, making it versatile for various applications, and it provides resistance to a wide range of chemicals and liquids. Pre-proportioned components ensure consistent performance during application.

## Typical Uses

- Sealing and repairing cracks in concrete structures
- Grouting cold joints and other undesirable cracks
- Suitable for a range of applications where structural integrity needs to be restored

## Substrate Preparation

The surface to be treated with EP 325 must be hard, sound, and free from dust, paint, lime coatings, plaster, curing agents, laitance, adhesive residues, and other materials that may inhibit adhesion. The area should be prepared by drilling appropriate holes and fixing injection packers or nipples. The holes must be free of debris and laitance before fixing the packers. Ensure that the entire length of the crack is sealed using a suitable adhesive.

## Mixing

Before mixing, thoroughly stir the individual components of EP 325. Pour the entire content of resin Part A into a larger vessel to accommodate the hardener Part B. Mix both components thoroughly until a smooth and consistent mixture is achieved.

## Application

EP 325 should be injected into cracks and joints using a high-pressure, airless double diaphragm pump or a two-component piston pump designed for epoxy injection. Begin by injecting the mixed material into each port or nipple, ensuring that all other ports remain closed. When the resin starts to emerge from the next port, close it and continue the injection process. Repeat this until all ports are filled. After 24 hours, remove all the nipples or ports and fill the resulting cavities with a suitable epoxy adhesive.

## Limitations

Once the mixed material exceeds its pot life, its viscosity and characteristics change, making it unsuitable for use. Any unused product should be discarded immediately after its pot life has expired.

## Cleaning

Tools and equipment should be cleaned immediately after use with CLI-Ecos Sol 205. Any hardened material will need to be removed mechanically.

## Physical Properties

Appearance:	Pale yellow liquid
Mix Density:	1.1 kg/litre
Viscosity:	1000±100 cps
Pot Life:	45 minutes
Application Limits	0.5 mm - 10 mm
Tack-Free Time:	6 hours
Full Chemical Cure	7 days
Compressive Strength (ASTM C579)	24 Hours: >60 N/mm <sup>2</sup> 7 Days: >70 N/mm <sup>2</sup>
Bond Strength to Concrete (ASTM D4541)	7 Days: >2.0 N/mm <sup>2</sup>
Packaging EP 325 is available in 5 kg packs.	Part A: 2 kg Part B: 1 kg

## Coverage Estimates

Coverage depends on the substrate, crack width, void size, substrate absorption, and other factors. Allowances should be made for wastage and variations in substrate conditions.

## Storage and Shelf Life

EP 325 has a shelf life of 12 months when stored in a dry environment at temperatures between 5°C and 30°C in its original unopened containers. Protect the product from frost, direct sunlight, and heat sources.

## Precautions

Avoid contact with eyes, skin, and clothing. In case of eye contact, rinse immediately with plenty of water and seek medical advice. After skin contact, wash immediately with soap and water. Prolonged skin contact should be avoided, especially for users with allergic reactions to epoxy materials. Always wear gloves and eye/face protection. Observe good personal hygiene practices, especially washing hands after use. Seek medical attention in case of accidents.

## Disposal/Spillage

In case of spillage, absorb the product with sand or other inert materials and transfer it to a suitable disposal container. Dispose of spillage and empty packaging in accordance with local waste disposal regulations.

## Conditions of Sale

Sold subject to the company's conditions of sale, which are available upon request.

## Note

The information provided in this datasheet is based on extensive experience and is given in good faith. However, as site conditions and application methods are beyond our control, no warranty or liability is inferred regarding the final performance of the product.

## Pack Size

15Kgs & 1.5Kgs



**Data Reliability**

All technical data provided in this document are based on laboratory tests. Actual performance may vary due to factors beyond our control.

**Regional Compliance**

Product specifications may vary based on local regulations. Please refer to the local Product Data Sheet for precise information.

**Legal Disclaimer**

The information and recommendations regarding the application and end-use of Carbolink products are provided in good faith based on our current knowledge and experience. Due to variations in materials, substrates, and actual site conditions, no warranty of merchantability or fitness for a specific purpose can be inferred. The user must determine the product's suitability for the intended application. Carbolink reserves the right to change the properties of its products. All proprietary rights of third parties must be observed. Orders are subject to our current terms of sale and delivery. Always refer to the most recent local Product Data Sheet, available upon request.