

Carbolink's Solutions for Adhesives & Sealants

# Polyseal EP - 11C



**Adhesives & Sealants 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



## Adhesives & Sealants

The use of adhesives offers many advantages over binding techniques such as sewing, mechanical fastening, thermal bonding, etc. These include the ability to bind different materials together, to distribute stress more efficiently across the joint, the cost effectiveness of an easily mechanized process, an improvement in aesthetic design, and increased design flexibility. Adhesives are typically organized by the method of adhesion. These are then organized into reactive and non-reactive adhesives, which refers to whether the adhesive chemically reacts in order to harden. Alternatively they can be organized by whether the raw stock is of natural or synthetic origin, or by their starting physical phase.

Sealant is a substance used to block the passage of fluids through the surface or joints or openings in materials a type of mechanical seal. in building construction sealant is sometimes synonymous with caulking and also serve the purposes of blocking dust, sound and heat transmission. Sealants may be weak or strong, flexible or rigid, permanent or temporary. Sealants are not adhesives but some have adhesive qualities and are called adhesive-sealants or structural sealants.

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

Here is our Technical Description of CLI PolySeal EP - 11C :







## **POLYSEAL EP - 11C**

### **2K Epoxy Modified Sealants**

#### **DESCRIPTION**

Polyseal EP - 11C is a two component, semi-rigid epoxy for filling control and construction joints in industrial concrete floors. This product supports the joint edges and reduces spalling of the edges caused by wheel traffic. Polyseal EP - 11C has been designed for use under ACI 302, Section 4.10 recommendations for epoxy joint fillers.

#### **ADVANTAGES**

- Semi-flexible formula that allows for limited temperature and humidity movement of concrete
- Tough performance reduces floor joint repairs and maintenance
- Suitable for filling cracks in older floors to reduce the rate of deterioration

#### **SPECIFICATIONS / COMPLIANCES**

Polyseal EP - 11C is a semi flexible joint filler designed to comply with ACI 302 recommendations regarding control and construction joints.

#### **APPLICATION**

- Concrete construction and control joints in industrial floors
- Crack filler repair for old floors.

#### **APPLICATION METHODOLOGY**

- Ensure that the groove to be treated is free from oil, grease, paints or any other contamination.
- Any dust or loose particles has to be removed by air pressure or by any other suitable method
- Grooves should be clean and dry prior to the application of Polyseal EP - 11C.
- Masking tape has to be applied near the edge of the groove to get a straight neat finish.
- Mix component A and Component B separately. If settling is observed in the Comp A and Comp B, loosen the settled material with the help of hand stirrer followed by power driven stirrer for quick homogenous mixing. Mix Comp B gradually into the Comp A under continuous stirring.
- After ensuring a homogenous mix, pour the mixed material into the groove.
- Joints should be overfilled and immediately cut with a razor knife or ground flush with the floor. If Polyseal EP - 11C has completely hardened, a heat flame may be used to soften the material for easier removal.
- Polyseal EP - 11C requires no special curing instructions. The product will cure within 24 hrs of placement @ 21 °C. Lower temperature will slow the curing rate

#### **CHARACTERISTICS**

Pot Life at 24 °C, minute	15
Compressive Strength, 72 hrs	210 kg/cm <sup>2</sup>
Elongation, 7 days	55 %
Water Absorption after 72 hrs immersion	1.1 %
Shore A Hardness	> 100
Tack free time @ 24 °C, hrs	12
Tensile Strength, 7 days	46 kg/cm <sup>2</sup>
Chemical Resistance after 72 hrs, 24 °C	
• CaCl <sub>2</sub> (10%)	Excellent
• Caustic (10%)	Excellent
• Muriatic Acid (10%)	Excellent

#### **CLEANING**

Tools, equipment and general clean-up can be done with Xylene or Toluene.

#### **LIMITATION**

- Based on ACI 302 recommendations, epoxy joint filler should be applied 3 to 6 months after construction, the later the better.
- Do not use Polyseal EP - 11C as an expansion joint sealant.
- Use only at temperature above 4 °C .
- Contact surfaces must be cleaned and dry .

**HEALTH & SAFETY**

- The product should not come in contact with the skin and eyes, or be swallowed.
- Ensure adequate ventilation and avoid inhalation of vapours as some people are sensitive to resins, hardeners and solvents.
- Wear suitable protective clothing, gloves and eye protection.
- In case of contact with skin, rinse with plenty of clean water, then cleanse with soap and water. Do not use solvent to clean the contacted area.
- In case of contact with eyes, rinse immediately with plenty of clean water and seek medical advice.
- If swallowed seek medical attention immediately - do not induce vomiting.

**PACKING**

Available in 1 and half kg Unit contains both hardener and resin packed in 12 kg carton.

**STORAGE AND SHELF LIFE**

Keep in a cool and dry place under shed away from heat. The shelf life of product is 12 Months in original unopened sealed condition.

**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**



**Carbolink India Pvt. Ltd.**  
105, 1st Floor, Bhavya Sree Arcade,  
Above BATA, Erragadda,  
Hyderabad- 500018, INDIA  
Tel : +91 2370 0524, 2381 0264  
Email : [info@carbolinkindia.com](mailto:info@carbolinkindia.com)