

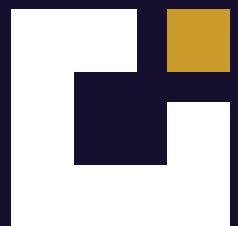
Carbolink's Solutions for Adhesives & Sealants

Polyseal S - 11C



**Adhesives & Sealants 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 Compounds
- 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 S - 11C :





POLYSEAL S - 11C

Two Component Polysulphide Gun Grade Sealant

DESCRIPTION

Polyseal S - 11C is based on liquid polysulphide polymers, which adhere to most of basic civil engineering materials like cementitious substrates, aluminium, glass, wood, mild steel etc. The product is used for sealing expansion joints, door-window surrounding joints & floor concrete to wall masonry separation joints etc. After mixing the base component & curing agent in given proportion rubber like material is formed. It conforms to BS 5212: 1990 Part I -Type F and Type FB (Flame and Fuel Resistance). Also complies IS 12118 Part 1 – 1987.

ADVANTAGES

- Excellent UV resistance after full cure is over
- Can withstand in fully submerged condition
- Good chemical & water resistance
- Adhesion compatible to most of substrate
- Suitable for potable water after full cure
- Very high thermal flexibility
- Very high service life
- Flame and Fuel Resistance

APPLICATION

- Vertical & Overhead expansion joints in Industrial, commercial or residential buildings
- Joints in concrete roads bridges, subways, flyovers & airport runway
- Joints between plastered masonry walls & aluminum door/window section sides
- Concrete cracks repairs in slab
- Joints in water retaining structures like water tank, swimming pool, aqueducts, dams, canals & reservoirs
- Atomic nuclear power station reactor domes
- Joints between pipe lines
- Roof light joints.

APPLICATION METHODOLOGY

- Surface should be fully dry, clean and free from dust, laitance, oil and grease etc.
- Clean with sand paper & wire brush, then dust and foreign particles to be removed. Subsequently use masking tape at floor level beside both sides to get sharp edged neat and clean joint.
- Avoid adhesion of spill-over material beside the joint.
- Use polyurethane Foam (PUF) strips (equivalent) in expansion, construction & control joints as back up material to avoid 3-face adhesion and to avoid contact between joint forming board & sealant.
- Use of primer on vertical side faces of the joint is optional to ensure strong bonding between substrate and sealant. Primer must be recommended for old concrete.
- Sealant application should start after 30 minutes but not later than 2 hours after priming the surface.
- The Base and Accelerator compounds are packed in pre-weighed quantity as per the mixing ratio.
- Mix the material of individual container.
- Transfer entire quantity of Accelerator to the base compound and mix it thoroughly to a uniform and homogenous Grey colour.
- Mixing can be done manually with spatula/palette knife or special flat stirrer attached to a low speed electric mixer less than 500 rpm.

CLEANING

Finish the joint in concave shape by using wooden batten soaked in soap water or white sprit from time to time. Remove masking tape within 30 minutes before setting of sealant. Clean tools and tackles using solvent like Xylene etc.

PROPERTIES

Pot Life, 25°C	Minimum 2 hrs
Colour	Grey
Solid Contents, %	97 - 100
Service Temp, °C	- 40 - 85
Application Temp, °C	5 - 50
Theoretical Coverage, rm, grm	55 For 2.5 mm x 12.5 mm

Shore A Hardness	22 ± 3
Setting Time, hr, 35°C	6
Specific Gravity	1.60 – 1.70
Movement Accommodation Factor, %	
- Butt Joints	± 25
- Lap Joints	± 50
Full cure	Upto 8 days in tropical conditions
Service Temperature	- 40°C to 85°C

HEALTH & SAFETY

- Polyseal S-11C and primer may cause sensitization by inhalation and skin contact.
- Wear suitable clothing, gloves and eye/face protection. Barrier creams provide additional skin protection.
- Any skin contact occurs; remove immediately with a resin removing cream, followed by soap and water. Do not use solvent.
- In case of contacts with eyes, rinse with plenty of clean water and seek medical advice. Use only in ventilated areas.
- Fire: Primer is flammable. Do not expose flames or other sources of ignition. No smoking. Containers should be tightly sealed when not in use. In the event of fire, extinguish with carbondioxide or foam.

PACKING

Available in 4 kg Container packed 16 kg carton.

STORAGE AND SHELF LIFE

Store in a cool 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