

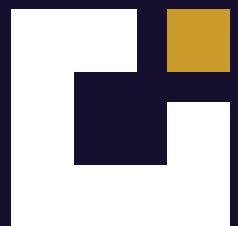
Carbolink's Solutions for Adhesives & Sealants

Polyseal S - 12C



**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 - 12C :





POLYSEAL S - 12C

Two Component Polyurethane Sealant

DESCRIPTION

Polyseal S - 12C is a coal tar free modified two part polyurethane sealant which cures to form a durable, flexible, watertight bond with most building materials and is capable of accommodating, dynamic joint movement. It is available in two forms : Gun Grade (GG) and Pouring Grade (PG).

ADVANTAGES

- Cold Applied – no heating required
- Coal tar free
- High movement accommodation
- Excellent workability, easy to use
- High performance
- Fuel, oil and hydraulic fluid resistance.

APPLICATION

- Air-field runways
- Roads
- Bridge decks
- Docks and harbors
- Parking and Cargo areas
- Warehouses

APPLICATION METHODOLOGY

- Ensure that all joints are completely dry and free from all traces of dirt, dust, grease, any previous sealants and foreign matter.
- Clean thoroughly the surface by wire brushing, either hand or machine operated, grit blasting or grinding.
- Ensure dried and cleaned bonding surface in all joints to be sealed. Preferably, all joints should be parallel and straight for better sealing.
- Repair spilled joint should be repaired with appropriate material, such as epoxy mortar.
- Place into the base of the joint breaker or back up material to form correct cross section for joint sealant and to prevent the sealant bonding to the base of the joint.
- Prime the sealing slot surface with suitable Primer using clean dried brush.
- Apply Polyseal S - 12C within 0.5 – 2 hr of application of primer, depending on climatic condition, when the primer is just touch dry and not when the primer is dried completely.
- If the primer is dried completely or left overnight without applying sealant then remove dried primer by grit blasting and reapply.
- Add Component A (Resin) in Component B (Hardener) and mix thoroughly for 5 mins, until homogenous mix is achieved, using a slow speed drill (400 – 500 rpm) fitted with a suitable mixing paddle.
- Apply Polyseal S - 12C by pouring or by gun.

JOINT SIZE

- Polyseal S - 12C can accommodate large continual cyclic movements. However joint spacing shall be taken into consideration for optimum performance.
- Width of joints depends very much on the spacing between joints and designed to ensure total movement does not exceed MAF 25%. In areas subjected to traffic, a maximum joint width of 30 mm is recommended, with a recess of 5 mm below flush.
- Sealant depth should not exceed joint width. A width : depth ratio of 1 : 1 to 1.5 : 1 subject to a minimum 10 mm depth of sealants is recommended.

CURE TIME

- Pot life is approximately 2 – 3 hr at 23°C . However, the application time and rate of cure will depend upon the temperature of sealant and the ambient temperature at the time of application.
- At higher temperature, the rate of cure will be faster. Final cure, when full working properties are developed, occurs within two days at 25°C although the sealant will normally bear traffic with 24 hours of application.
- Low temperatures retard cure. Do not apply when the temperature is below 5°C.

CHARACTERISTICS

Appearances	Viscous grey liquid
Colour	Grey resin, with colourless hardener
Solid content, %, by mass	100
Hardener Shore 'A' @ 25°C	15 ± 2
Pot life @ 23°C, hr	2 - 3
Tack free setting time, @ 35°C, hr	16 - 24
Butt Joints, %	25
Application Temperature, °C	> 5 < 40

COVERAGE GUIDE

Joint Size	L / rmt
10 x 10	0.100
13 x 13	0.169
15 x 15	0.225
20 x 15	0.300
20 x 20	0.400
25 x 20	0.500
25 x 25	0.625
30 x 25	0.750

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.
- 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 3 units 3 L consisting of Comp A 2.4 L and Comp B 0.6 L.

STORAGE AND SHELF LIFE

Store in properly ventilated room at a maximum temperature of 25 °C. Storage above this temperature may reduce the shelf life. 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**



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