

**Carbolink's Solutions for Adhesives & Sealants**

**SU 10**



**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 SU 10 :







## SU 10

### Single Component, Elastomer Polyurethane Sealant For Expansion Joints

#### FEATURES

Non staining

- Granite, marble, sandstone
- Metal frame, perimeter sealing
- Various joint sealing of PC and RC
- Aluminum

Expansion joints in heavy and light prefabrication and traditional masonry

Sealing joints for facade panels, curtain walls, boarding, exterior wood finishing

Joints between frame and preframe, between door frame and masonry

Adheres on a majority of building supports: concrete, glass, anodized aluminium, wood.

#### DESCRIPTION

SU 10 is a single component, elastomer polyurethane sealant for expansion joints.

#### SUBSTRATE PREPARATION

The surface must be clean, dry and free of dust, grease or residues. On concrete, wait first for it to cure out and stabilize (minimum 4 weeks). A preliminary test is necessary on siliconized tiles. It is up to the users to check the compatibility with the surface in terms of adherence, chemical compatibility and staining (make a pre-test if required). Size correctly the joint according to the predictable movements and to the capacity of movement. The width of the joint must be included between 6 and 40 mm. For the width of joint lower or equal to 10 mm, the depth of the joint must be equal to its width. For the widths of joints superior to 10 mm the depth of the joint must be equal in the middle of its width.

#### APPLICATION

Press a flexible backfilling rod that will not adhere to the sealant. The bottom of joint should not show notches likely to cause bubbling. Protect the edges of the joint by adhesive tape for a better finishing.

Apply the sealant in a continuous strip with enough pressure to fill properly the joint.

Apply the sealant in one layer with joints of small width, in three layers with joints of large width, the two first onto the edges of the joint and the third onto the bottom. Smooth with water free of additives. Press the sealant correctly against the edges and the bottom of the joint while avoiding the air bubbles inclusion. Remove the masking tape. Protect the joint from all downpours and water streaming.

Clean the material (equipment) with white spirit before drying. The cured sealant comes out by scratching.

Can be later painted after full curing. Use rather paintings in dispersal (acrylic, vinyl) and realize a preliminary test. The movement of the joint can pull (entail) the fissuring of the painting.

#### PHYSICAL PROPERTIES

Skin formation time	75 minutes
23°C, 50% RH	
Rate of cure in mm	in 24 hours
23°C, 50% RH	≥ 2.5
Resistance to flow	
- at 23°C	ISO 7390 ≤ 3 mm
- at 50°C	ISO 7390 ≤ 3 mm
Shrinkage	ISO 10563 ≤ 10%
Temperature of application	+ 5°C ≤ T ≤ + 40°C
Temperature of service	- 20°C ≤ T ≤ + 80°C
Specific gravity	1.3 g/cm <sup>3</sup>

## **CURED JOINT CHARACTERISTICS**

Shore A Hardness	20 - 25
DIN 53 505	
Modulus at 100%	0.20 - 0.25 Mpa
ISO 8339	
Elongation at Break	250%
ISO 8339	
Elastic recovery	> 70%
ISO 7389	
Water vapor Diffusion	32g / m <sup>2</sup> / 24 hours
NFT 30018	
Movement Capability	25%

## **STORAGE AND SHELF LIFE**

SU 10 has a shelf life of 12 months if kept in a dry, store at temperatures not exceeding 30°C. in the original unopened containers. The product should be protected from frost, away from direct sunlight and sources of heat.

## **CHEMICAL RESISTANCE**

Chemical resistance (as an indication): to water, cleaning agents, accidental spills of oils and hydrocarbons, accidental spills of acids and diluted bases. Because of the sensitivity of polyurethanes to UV, clear colours may change over time. This modification is only aesthetic and it does not affect the mechanical properties of the cured product.

## **COLOURS**

SU 10 is available in five standard colours: White, Grey, Middle Grey, Teak and Black.

## **PRECAUTIONS**

- Contains isocyanates.
- Avoid contact with skin.
- In the event of contact with eyes, clean immediately with water and obtain medical attention.
- Use only in well ventilated areas.
- Keep out of reach of children.

## **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.

## **COONDITIONS 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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