

# CIKOjoint PS

## Polysulphide based joint sealant

### Description

CIKOjoint PS is a two part Thiokol based polysulphide joint sealant for horizontal and vertical applications for expansion and contraction joints. The cured material provides very high elastomeric property having a movement accommodation factor of 25%. It exhibits long service life along with resistance to weather, aging, water, salt, ultra violet rays, oil fuels etc.

CIKOjoint PS provides effective bond strength to wide range of substrates such as metal, wood, concrete, glass etc used in building and construction industries.

### Properties

- Cold applied two component system.
- Available in pouring and gun grade consistency.
- Accommodates cyclic movement of pavement slab due to thermal expansion and contraction.
- Exhibits good UV resistance.
- Provides excellent bond strength over a wide range of substrates.
- Available in standard colours.
- Low maintenance cost.

### Applicable standards

CIKOjoint PS complies with Federal specification TT-S-227E and also USASI specification A116.1-1967 class A and B. ASTM C-920 Type M, Grade NS / Grade P and Class 25. It also meets British Standard BS 4254, BS EN ISO 11600.

### Application area

CIKOjoint PS is a high quality joint sealant and is suitable for,

- Expansion and contraction joints in buildings.
- Concrete pre-cast claddings.
- Curtain wall structures.
- Joint in walk ways, dams, potable water reservoirs, swimming pools,

airport runways, window frames, flashing and areas subjected to spillage of oils, fuels and petroleum products.

- Industrial floors and basement.
- Joints on roofs.

### Physical properties

Form	Viscous liquid or thixotropic paste
Colour	Grey In General
Solid content	100%
VOC (EPA 24)	<1 g/l
Consistency	Non sagging paste and Flow able liquid
Pot life	2 to 3 hours @ 25 <sup>0</sup> C
Application temperature	+5 <sup>0</sup> C to +50 <sup>0</sup> C
Tacky free time	24 hours @ 25 <sup>0</sup> C
Curing time @ 25 <sup>0</sup> C	72 hours
Shore A hardness	25 ± 3
Movement accommodation factor	25% butt joint 50% lap joint
Service temperature	-50 <sup>0</sup> C to +100 <sup>0</sup> C
Chemical resistance	Resistance to spillage to most chemicals. Specific data available on request.
Adhesion in peel ASTM C794	<18% loss in bonding
Adhesion in peel ASTM C794 after 200 hours UV Exposure	<20% loss in bonding
Heat aging ASTM C1246-99	No cracking or chalking was observed on the sample after exposure
Elongation ASTM D412	700%

### Coverage

CIKOjoint PS provides coverage as follows.

Joint size 20mm X 10mm	5.0m per litre
Joint size 20mm X 20mm	2.5m per litre

Note: Coverage rate may vary depending on joint size.

## Application instructions

### Surface preparation

Clean the joint substrate to make it free from all loose particles, dust, oil grease and any other form of contamination. In case of oil spillage, proper treatment should be carried out on the surface. The joint must be free from dampness and standing water.

### Placing backup rod and masking tape

Closed cell polyurethane based backup rod must be placed inside the joints. The depth of the sealant shall be maintained by properly placing the backup rod. Fix masking tape on upper face of the concrete.

### Application of primer

Prime is not mandatory for application of CIKOjoint PS. However on porous substrates we recommend to use primer CIKOjoint Primer as per its respective technical data sheet.

### Mixing

The base component of CIKOjoint PS should be mixed thoroughly using a heavy duty slow speed drill-paddle assembly and ensure a homogenous mix. Then hardener component should be poured into the base component and mixed well until a homogenous mix is obtained.

### Application method

#### Horizontal Joints – Pouring Grade

Properly mixed material can be directly poured into the primed joint and levelled to the surface of concrete.

#### Vertical Joints – Gun Grade

Properly mixed material shall be first filled inside sealant gun and joints must be filled by triggering required amount sealant. The surface shall be levelled using spatula.

## Packaging

CIKOjoint PS is available in 2.5 ltr [Gun Grade] and 4.0 ltr [Pouring Grade] kits.

## Shelf Life

CIKOjoint PS has a shelf life of 12 months in unopened pails and if stored in accordance with CIKO instructions.

## Storage

CIKOjoint PS should be stored under enclosed shaded area at temperatures between 10 – 35°C.

## Precautions

- Do not use over damp surface or standing water.

## Health & safety

CIKOjoint PS should not come in contact with eyes or be swallowed. Ensure adequate ventilation and avoid inhalation of vapours. Applicator should wear appropriate clothes, gloves and goggles. Usage of barrier cream is recommended to provide additional skin protection. If comes in contact with eyes, flush with plenty of fresh water and seek medical advice.

Refer Material Safety Data Sheet for further details.

## Technical Support

For any technical support, do not hesitate to contact CIKO team at any time as CIKO offers on and off site services to end users, specifier and contractors.

## More from CIKO Middle East

A wide range of construction chemical products are manufactured by CIKO Middle East which includes:

- Concrete admixtures and additives
- Waterproofing and damp proof coatings
- Surface treatments
- Flooring and toppings
- Grouts and anchors
- Tile adhesives and grout
- Concrete repair materials
- Adhesives and bonding agent
- Protective coating
- Joint Sealants and Moulding compounds
- Ancillaries

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Note: The information presented herein based on the best of our knowledge and expertise for which every effort is made to ensure its reliability. Although all the products are subjected to rigid quality tests and are guaranteed against defective materials and manufacture, no specific guarantee can be extended because results depend not only on quality but also on other factors beyond our control

