

# CHRYSO® POLYCAULK PS

## Two Part Polysulphide Based Fuel Resistant Joint Sealant



### Description

**CHRYSO POLYCAULK PS** is a two component fuel resistant elastomeric joint sealant based on liquid Polysulphide resin and catalyst. When these two components are mixed, a flexible solid elastomeric rubber is formed. The cured sealant exhibits excellent adhesion to most of building materials and superior movement accommodation as compared to conventional sealing compounds like bitumen, asphalt mastic, etc. CHRYSO POLYCAULK PS is available in **gun grade** and **pour grade**.

**CHRYSO POLYCAULK PS** conforms to **BS-4254, BS- 5212 and IS 12118**.

### Indicative Characteristics

Appearance of cured material	Grey
Specific Gravity at 27°C	1.7 ±0.1
Mixing Ratio (Base: Hardener), by weight	92:8
Pot Life, at 30°C, BS 4254, 5212	2 hours
Tack free time at 30°C, BS 4254, 5212	Less than 24 hours
Full Cure at 30°C, BS 4254, 5212	7 days
Hardness, Shore A, ASTM D 2240	21
Resistance to fuel, Mass Change, BS 5212 ( -10 to +5), %	-1.8
Recovery % (75 min), BS 5212, BS 4254	96
Flame Resistance, BS 5212,	Passes test
Movement Accommodation, %, BS 5212, BS 4254	25% (Minimum)
Fire Classification	B2

### Domains of Application

**CHRYSO POLYCAULK PS** used in parking lots, concrete pavements, runways,

- Extreme temperature zones
- Sealing of expansion and construction joints of concrete
- Sealing of dynamic cracks
- Glazing joints of doors and window frames, curtain walls, etc.

### Method of Application Joint Design

To achieve effective performance of joints the established width-to-depth ratios are determined and are given below:

- Joint width 6mm to 12mm: Depth of sealant- 6mm minimum but not more than width
- Joint width 12mm to 25 mm: Depth of sealant – width/2

### Joint Preparation

Surface must be dry, sound, free from dirt, grease, oil and other loose foreign matter. (Use backer rod to adjust joint width to depth ratio. Cover edges of joint with masking tape to protect them from primer spillage. Using a clean brush, apply thin coat of primer to the surface of joints , avoid applying primer to the backing material and allow primer to air dry before applying sealant.

### Mixing

Mix Hardener and Base with a slow speed stirrer as per recommended mixing ratio to a smooth colored blend.

### Application

- Use gun grade for vertical and overhead application after filling in application gun.
- For horizontal surfaces, use pour grade and directly pour in to the joints after mixing.

The information contained in this technical data sheet is given to the best of our knowledge and the results from extensive testing in order to remain as objective as possible. However, it cannot, in any case be considered as a warranty involving our liability in case of misuse or any different use of our products from the "Application" paragraph of this technical data sheet. Some application tests should be carried out before using the product to ensure that the methods of use and conditions of application of the product are satisfactory. Our technical assistance is at the disposal of the users. Consult the latest update of the technical data sheet on our website [www.chryso.com](http://www.chryso.com)

**CHRYSO India Private Limited | Registered & Corporate Office : Plot No. D -30/7, TTC Industrial Area, M.I.D.C. Turbhe, Navi Mumbai – 400705. Maharashtra, INDIA. Tel : +91 22 27685991/2**



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### Calculation of Coverage (Typical) per kg of Sealant

$L$  ( Length in running meter) =  $600 / (W \times D)$ ,  $W$  = width in mm,  
 $D$ = depth in mm, 1L primer is required for 16kg of sealant.

**Note: The above calculation is based on ideal laboratory condition, 5-10% extra material may require to compensate wastage and surface unevenness.**

### Advantages

- Excellent adhesion to most building materials including aluminium, concrete, marble, stone, brick, masonry block, quarry tiles, timber etc.
- Forms a tough elastic rubber like seal
- Resilient, recovers the original width after expansion and contraction without losing the surface bond.
- Resistant to water, UV rays, oxidation, corrosive fumes, motor and aviation fuels, dilute acids and alkalis.
- Excellent performance in wide service temperature range from -20°C to +80°C

### Shelf Life & Storage

12 months from the date of manufacturing when stored in unopened, original sealed and dry condition at a temperature range from +5°C to 40°C.

### Packing

4kg kit

### Precautions

- Width for application in a joint should not be more than 50 mm.
- Adhesion of the sealant must only be on two opposite joint faces; it should not adhere with third surface.
- Carry out sealing operations in the temperature range +5°C to 40°C.
- Pouring Grade version must only be applied in horizontal joints.
- Application to be started only after 30 minutes of priming the substrate but not later than 8 hours.
- Do not apply on damp surfaces.

### Safety

- Wear hand gloves, safety shoes and safety goggles while using and handling the product.
- In case eyes or mouth are affected wash with plenty of clean water and seek medical treatment immediately.

Before use, refer to the Material Safety Data Sheet. The MSDS is available on [www.chryso.com](http://www.chryso.com)

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