

## **Self-Leveling “Two Component Polysulphide Sealant” Based Elastic Sealant with High Performance Chemical Resistance**

**Description:** **PUR Seal PSNS** is a 2-component cold applied, pourable, self-leveling sealant based on polysulphide polymers. When the two components are mixed together, it cures to form a tough, resilient and elastic sealant for horizontal joints.

**PUR Seal PSNS** is resistant to fuel oils, petrol, mineral oils, lubricating oils, dilute acids, alkalines, sea water, waste water, root, micro-organisms and is non-biodegradable.

**Uses:** **PUR Seal PSNS** is suitable for use in horizontal joints where light traffic is involved and damage due to chemical influence may be expected. For example:

- **Flooring and connection joints for fuel storage depots and loading bays for fuel, oil and motor fuel oils.**
- **Garage floors and car washing bays**
- **Underground garages**
- **Car parks**
- **Terraces (where elastic or plastic insulation exists)**
- **Connection joints of bituminous coverings to concrete coverings and concrete objects.**
- **Runways, taxiways, parking bays, aprons, bridges and garages at airports.**

- Advantages:**
1. **Easy to mix and apply.** Pours easily and self-levels.
  2. **Excellent Resistance against mechanical influences, oils and chemicals.** **PUR Seal PSNS** is suitable for joint of expressways and roads with heavy traffic as well as for joints of airfield runways, taxiways, aprons, bridges, etc.
  3. **Excellent Adhesion.** **PUR Seal PSNS** has excellent adhesion to common surfaces eg. concrete, stone, artificial stone, epoxies, steel, wood, etc.  
After submersion in water, sea water, sewage and oils, adhesion does not deteriorate. Retains **permanent elasticity** under exposure to weather.
  4. **Performs well over a broad temperature range.**
  5. **Resists attack from micro-organisms.**

- Important Notes:**
- Protect against exposure to oil for 1 week and to water for 10 hours after application.
  - Maximum slope ~ 3%
  - Not suitable for contact with drinking water.
  - Please consult the Technical Department for advice on chemical resistance.

**Technical & Physical Properties Data**

**PUR Seal PSNS**

<b>Density g/cm<sup>3</sup></b>	Rated value ±0.1	
<b>Liquidity</b>	- <b>Sagging degree (N)mm</b>	≤3
	- <b>Leveling (L)</b>	Smooth and Flat
<b>Surface drying time, h</b>	≤24	
<b>Applicable period, h</b>	≥2	
<b>Recover rate of elastic, %</b>	≥70	
<b>Tensile Modulus, Mpa (23°C)</b>	≤0.4	
<b>Property of fixed extension and bond</b>	There is no damage	
<b>Cracking property after cold drawing and hot pressing</b>	There is no damage	
<b>Ratio of quality loss, %</b>	≤5	
<b>Shelf Life</b>	6 months	
<b>Packaging</b>	5 kg sets	
<b>Movement Capacity</b>	Concrete Surfaces:	≈ 35% of average joint width
	Bituminous Surfaces:	≈ 28% of average joint width
<b>Joint Configuration</b>	Minimum joint depth:	08 mm
	Maximum joint width:	35 mm
	Width: Depth ratio for expansion joints:	1 : 1 to 1.5 : 1
	Connection joints:	1 : 1 to 2.0 : 1
<b>Storage Condition</b>	Store in cool, dry conditions, protected from extreme temperatures (below + 25°C). <b>PUR Seal PSNS</b> is sensitive to humidity and therefore should be kept at all times in its original air-tight container. Absorption of moisture may lead to premature polymerisation of Component B (formation of insoluble materials).	

**Consumption Guide**

**Coverage in meter per kg sealant**

Joint	Width	8 mm	10 mm	15 mm	20 mm	25 mm
	Depth					
	8 mm	10.5	8.4	5.6	4.2	3.4
	10 mm	8.4	6.7	4.5	3.4	2.7
	15 mm	5.6	4.5	3.0	2.2	1.8
	20 mm	4.2	3.4	2.2	1.7	1.3
	25 mm	3.4	2.7	1.8	1.3	1.1

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## Instructions For Use

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### Joint Preparation

All joints must be clean, dry and free from any loosely adhering particles. Remove oil and grease and if necessary colour coatings and other surface contaminants. Minor damages to joint surface should be repaired first using **Epo Bond Putty or Epo Mortar or Cem Strength or Cem Grout**. All metals should be degreased and free from rust or oxide layers.

### Joint Depth

To avoid a three-sided joint and to ensure correct joint depths, polyethylene foam is inserted tightly into the joint. Where joints have been formed with fibre filler boards, this must be raked back to the required depth and a bond breaker tape inserted. For neat straight edges, apply masking tape along the joint flanks.

### Priming

Use Epo Bond Primer for all cement-bounded building materials, exposed brickwork, asbestos cement, natural and artificial stonework, polyester and hard PVC. Drying time is minimum 1 hour and maximum 5 hours.

For all metal, glass, clinker and stoneware use Epo Bond Primer combined with Epo Bond Primer. Allow Epo Bond Primer to dry for at least 2 hours before applying Epo Bond Primer.

Use Epo Bond Primer for bituminous covering joint. Two coats are necessary with an interval drying time of minimum 12 hours and 24 hours for final drying.

No priming is necessary for epoxy and polyurethane surfaces. However, these substrates are to be grounded, roughened and activated with Colma-Cleaner.

### Mixing

Using a slow speed drill (500-800rpm), mix the contents of Component A thoroughly before adding Component B. After adding, mix together for not less than 3 minutes until a smooth even consistency is achieved. It is important that the entire quantity of Component B is added to Component A.

### Application

Immediately after mixing, the sealant is poured into the prepared joint with a plastic can. **PUR Seal PSNS** should be 2-3mm below traffic bearing surface.

### Cleaning

Clean all tools and equipment immediately after use with Colma-Cleaner.

### Safety

The use of protective clothing, goggles, barrier creams and rubber gloves is required. The skin should be thoroughly cleansed at the end of each working period either by washing with soap and warm water or by using a resin removing cream – the use of powerful solvents is to be avoided. Disposable paper towels-not cloth towels-should be used to dry the skin. Adequate ventilation of the working area is recommended. In case of accidental eye or mouth contact, flush with water-consult a doctor immediately.

For more information, please refer to the Safety Data Sheet (available upon request).

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