



# Polyseal PS

Proven performance

## 2 Part Polysulphide Joint Sealant

### ● DESCRIPTION

**Polyseal PS** is a two component, low modulus, chemically curing polysulphide joint sealant developed specifically for dynamic joints. It is based on a liquid polysulphide polymer which when mixed with the hardener, cures to form a tough rubber like seal. **Polyseal PS** exhibits excellent adhesion to most surfaces and has good resistance to most chemicals & weathering conditions.

**Polyseal PS** is available in both gun and pouring grades. The gun grade is suitable for vertical or horizontal application. It is available in a ready to mix, 2.5 litre tin containing all components in correct proportions. The pouring grade is suitable for horizontal application and is available in 4 litre packs with base and curing agent in separate tins.

### ● ADVANTAGES

- Highly resilient with excellent recovery characteristics.
- Provides permanent and uniform water tight seal.
- Stays flexible - won't become brittle or crack due to ultra violet exposure.
- Not affected by today's pool chemicals
- Prevents uncontrolled cracking by allowing expansion and contractions during temperature changes.
- Excellent adhesion to most common substrate.
- High resistance to ageing.
- Not harmful to human & environment.
- Can be recycled.

### ● PROPERTIES

Solid Content	100%
Density	1.5 g/cc for Gun Grade 1.3 g/cc for Pour Grade
Movement Accommodation factor	25%
Color	White/Grey (Gun Grade) Grey ( Pouring grade )
Pot Life	2 Hrs at 35°C
Initial Curing	24 Hrs at 25°C
Final Curing	7 Days
Appearance after curing	Rubber like solid
Application temperature	5°C to 50°C
Service Temperature	-20°C to 90°C
Shore A Hardness at 25°C	20 +/- 5 (Pouring Grade) 25 +/- 5 (Gun Grade)
Resistance to UV & Ozone	Excellent
Resistance to staining	Excellent
Resistance to Chemicals	
Fuels (solvents)	Good
Oils	Good
Standards	BS 4254-83 BS 6920-88 US Federal specification-TT-S00 227E WRAS for use in potable water.

### ● JOINT DESIGNS

The width of the joint should be a minimum of 4 times the anticipated movement. Joints with cyclic movement should have a width to depth ratio of 2:1. But minimum depth of the sealant should be maintained as recommended:

- 10 mm for all porous surface.
- 20 mm for joints exposed to traffic & hydrostatic pressure.
- 5 mm for impervious surface such as metals, glass etc.

● **COVERAGE**

Length of joints in meters filled per 1 lt. of **Polyseal PS**

Depth (mm)	Width (mm)				
	10	15	20	25	30
10	10	6.7	5		
15	6.7	4.4	3.3	2.6	2.2
20	5	3.3	2.5	2.0	1.67
25		2.6	2.0	1.6	1.3

● **APPLICATION**

**Joint Preparation**

The joint surface must be clean, dry and free from oil, loose mortar, laitance, release agents and other contaminants. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose clean, sound surface.

**Priming**

Primer should be applied to clean, dry surfaces prior to installation of backer rod or bond breaker tape. **Polyprime PS** is recommended for porous substrates. For non porous substrates such as steel or glass use **Polyprime NP** for optimum adhesion. Where a particularly neat finish is required, apply masking tape on both side of the groove before priming and remove it once the sealant application is complete.

**Backup Material**

**Polyrod** closed cell polyethylene backer rod should be used to control the depth of the joint to the recommended thickness, where joint design or depth of joint will not permit the use of backing rod, use a bond breaker tape over the cut back joint filler.

**Mixing and Application**

Gun Grade: **Polyseal PS** is available in a ready to mix container with all components in a single tin. Mix thoroughly with a slow speed drill (300-400 rpm) fitted with a flat bladed paddle for minimum 3 minutes until a uniform colour is obtained, load into sealant gun and apply to joint.

Pouring Grade Add part B to part A and mix thoroughly until a uniform colour is obtained. Then it can be poured into the horizontal joints directly or into a sealant application gun. Mix one full kit at a time . **DO NOT PART MIX** Once the sealant has been applied a suitable rounded tool soaked in soapy water can be used to achieve a smooth finish. Any masking tape applied should be removed before the sealant cures.

● **CLEANING**

Remove all excess sealant with scraper. Any spillage can be cleaned using solvents like xylol. Clean all the tools & gun using similar solvents, immediately after the tooling is finished.

● **PACKING**

**Polyseal PS** : 2.5 lt. Pail (Gun Grade)  
4 lt. Kit (Pour Grade)

**Polyprime PS** : 1 lt. Tin.

● **MAINTAINANCE**

If the Sealant is damaged and bond is intact, cut out the damaged area and recaulk. If the bond has been affected, remove the sealant, clean and prepare the joint in accordance with instructions under "Joint Preparation" and recaulk.

● **SHELF LIFE**

Up to 12 months in un-opened containers kept away from sunlight and at a temperature less than 25°C. Storage at elevated temperatures will substantially reduce shelf life.

● **HEALTH & SAFETY**

As with all construction chemical products caution should be exercised. Protective clothing such as gloves and goggles should be worn. Treat any splashes to the skin or eyes with fresh water immediately. Should any of the products be accidentally swallowed, do not induce vomiting, but call for medical assistance immediately.

Last revised on June 2006

Technical information given in this data, is to the best of our knowledge and is true and accurate.  
All data are averages of several tests conducted under lab condition.  
Climatic variation such as temperature, humidity and prososity of substrate may affect the values.



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