

POLYSEAL PS

● 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 & weather 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, two and a half litre tin containing the base and curing agent 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 adhesive to most common substrate.
- High resistance to ageing, mild chemicals.
- Not harmful to human & environment.
- Can be recycled.

● STANDARDS

British Standard BS 4254 - 83

British Standard BS 6920 -88

ASTM C 920 - 79

US Federal specification TT-S- 00 227E

WRC 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 below

- 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 litre of polyseal PS.

Depth Width	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

● **PROPERTIES**

Solid Content	100%
Specific Gravity	1.4
Movement Accommodation factor	+/- 25%
Colour	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 120°C
Shore A Hardness at 25°C	20 +/- 5 (Pouring Grade) 25 +/- 5 (Gun Grade)
Elongation at break	400%
Resistance to UV & Zone	Excellent
Resistance to staining	Excellent
Resistance to chemicals	
Dilute Acids	Excellent
Dilute Alkalis	Excellent
Fuels(solvents)	Excellent
Oils	Excellent

● **APPLICATION**

Joint Preparation

The joint surface must be clean, dry and free from oils, 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 only to be clean, dry surface prior to installation of backer rod, bond breaker tape. POLYPRIME PS is recommended for most common substrates like concrete, tiles etc. But for non porous substrates like glass & steel special primer can be applied to get 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.

● **BACK UP MATERIAL**

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.

● **MIXING AND APPLICATION**

GUN GRADE

Polyseal PS (Gun grade) is available in a ready to mix container with base and curing agent in a single tin. Mix thoroughly with a slow speed drill fitted with a paddle, until a uniform colour is obtained . Avoid entrapping air bubbles during mixing by keeping the paddle below the surface level. After mixing load the sealant to a sealant gun and apply carefully.

ISO 9001 2000

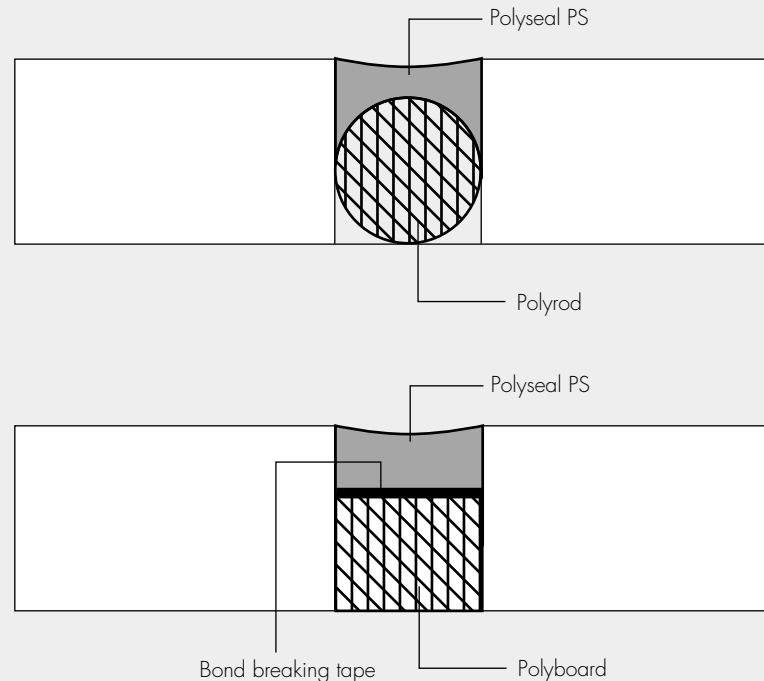


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POURING GRADE

Transfer part B to part A container and mix thoroughly with a slow speed drill fitted with a paddle for 3-4 min until a uniform colour is obtained. After mixing it can be poured directly into the horizontal joints and finish it with a scraper.

Note:- Mix one full kit at a time to avoid improper mix ratio.



● FINISHING

Once the sealant has been applied a suitable rounded tool soaked in soapy water shall 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.

● SHELF LIFE

Up to 12 months in unopened containers kept away from sunlight and at a temperature less than 25°C

● 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

● 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.