

PERMA POLYSEAL



A TWO COMPONENT POLYSULPHIDE SEALANT

SPECIFICATION

BS 4254 ; BS 5212 ; ASTM C 920

DESCRIPTION

Perma Polyseal is a two part polysulphide sealant based on polysulphide resin, curing agents, select fillers, plasticisers and vulcanising agents. When the base and curing agent are mixed it forms an uniform colour mass which can either be poured in to the horizontal expansion joints or gunned into the vertical joint depending upon the grade. Essentially Perma Polyseal is available in two grades. Pouring grade for horizontal application and gun grade for non slump vertical applications.

PRIMARY USES

Perma Polyseal is an expansion joint sealant useful in sealing horizontal as well as vertical joints. Perma Polyseal is used for sealing reappearing cracks on the roofs, shear cracks in the brickworks and joints in water tanks. Perma Polyseal is used for sealing gaps between the building material of different structures such as concrete and wood, glass and aluminium, and exterior glazings. Perma Poly seal is used in expansion joints varying between 6mm to 50 mm.

ADVANTAGES

1. Perma Polyseal seals the joints and makes them watertight.
2. Perma Polyseal accomodates the movement of structures because of expansion contraction and also because of deflections and settlements.
3. Perma Polyseal is tough hence floor joints treated with Polysulphide can be trafficable.
4. Peram Polyseal when dry gives an aesthetic smooth grey appearance.
5. Perma Polyseal is resistant to chemical spillages and also resistant to Oils, Petrol, Diesel and Solvents.

DIRECTION FOR USE

☐ SURFACE PREPARATION:

All joints to be sealed with Perma Polyseal should be dry clean and free from any dirt, dust, rust, scale or any protective lacquer or grease. Expansion joint fill material (bitumen impregnated board) shall be tightly packed in position so that a clear joint depth as per joint design is available. As a thumb rule depth of joint is taken as half its width and the depth is not less than 6mm. A bond-breaking tape or cello tape is fixed on the joint fill board to avoid direct contact between Perma Polyseal and the Board. Apply masking tape on top surface on either side of the joint to avoid staining of neighbouring area.

☐ PRIMING:

If the sides of the joints are porous and irregular use Polysulphide primer which is a two component material. Mix the two components and brush apply on the sides of the joint. When the primer becomes tack free apply or pour Perma Polyseal in the joint.

☐ MIXING:

Transfer the entire contents of the small curing agent pack to the larger pack of the base and mix thoroughly for five minutes by electric drill with blades or manually till a uniform consistency paste is obtained.

☐ APPLICATION:

Pour the mixed Perma Polyseal in the joints and finish the joints using rounded spatula or similar object to bring about a smooth surface and also remove any air which might have got entrapped during mixing. It is advisable to finish the surface slightly concave to keep the Perma Polyseal unaffected by heavy trolley movements.

PROPERTIES

Base	: Milky White Paste
Reactor	: Dark Brown/ black paste
Mixing Ratio	: 1:11.5
Specific Gravity	: 1.55
Pot Life	: 3 hours @ 25°C
Tackfree Time	: 24 hours @ 25°C
Full Cure	: 7 days
Total Solids	: 99 %
Application temp	: +5°C to 40 °C
Service temp.Limits	: -23°C to + 100°C
Shrinkage	: Negligible
Shore A hardness	:
@25°C(full cure)	: 23
Chemical resistance	: Good
UV resistance	: Very Good
Movement	
accommodation factor:	in butt joint 25 % in Lap joint 50 %

COVERAGE CHART

Coverage or the length of the joint sealed with one kg of Poly sulphide depends on the width. The following table gives the coverage in meter per kg of Poly sulphide for various joint thicknesses.

	Thickness of joint									
	6mm	10mm	15mm	20mm	25mm	30mm	35mm	40mm	50mm	60mm
Depth of Joint in mm										
6mm	17.90	10.75	7.16							
10mm			4.30	3.22	2.58					
15mm				2.15	1.72	1.43				
20mm					1.29	1.07	0.92	0.81	0.72	
25mm							0.74	0.65	0.57	0.52

CHEMICAL RESISTANCE

Chemical resistance of Perma Polyseal against various chemicals is as follows:-

Dilutands	- Resistant
Dilute alkalis	- Resistant
Petrol	- Resistant
Aviation fuels	- Resistant
Diesel	- Resistant
Kerosene	- Resistant
Lubricating Oil	- Resistant
White Spirit	- Resistant
Chlorinated solvents	- Not Resistant
Aromatic Solvents	- Not Resistant
Dilute oxidising Aids	- Not Resistant

PACKING

Perma Polyseal is available in 1kg & 4kg packings

SHELF LIFE

Twelve months if stored in manufacturer's original packing.

QUALITY ASSURANCE

All "PERMA" branded products are manufactured under strict quality control supervision as per exact manufacturing specifications. Should you find the behaviour of the product varying from the claims in the data sheets please stop the use of the product and contact Perma staff or distributor.

STATEMENT OF RESPONSIBILITY

Perma branded products when used in accordance with the current published directions for use, perform as per their data sheets/catalogues. The manufacturer and the distributor will not be responsible for other materials and conditions of inferior workmanship.

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