



BITUSUL PS PG

Two Part Pouring Grade Polysulphide Joint Sealant

DESCRIPTION

BITUSUL PS PG is a two component pourable, self leveling polysulphide resin based joint sealant.

BITUSUL PS PG is specifically designed to be used as a watertight seal for moderate movement and control joints in horizontal areas. It is based on a liquid polysulphide polymer which when mixed with the hardener, cures to form a tough, flexible and non staining rubber like seal.

BITUSUL PS PG has excellent adhesion to concrete, stone, metals and other common building surfaces. The cured sealant has good resistance to most environmental chemicals & resists deterioration on prolonged exposure to UV.

BITUSUL PS PG is suitable for use in horizontal areas with a maximum slope gradient of 10%. The sealant has a movement Accommodation Factor (mAF) of $\pm 25\%$

TYPICAL USES

- Sealing of movement and control joints in: Structural floor joints
- Airport runways and apron pavements
- industrial warehouses

- Garages & workshops 4 Swimming pool floors

ADVANTAGES

- Highly resilient with excellent recovery characteristics
- Provides permanent and uniform watertight seal
- Non-staining
- excellent resistance to fatigue and stays flexible throughout its service life—won't become brittle, caulk or crack due to ultra violet exposure
- Prevents uncontrolled cracking by allowing expansion and contraction during temperature changes
- excellent adhesion to most common building substrates
- Good resistance to ageing. retains joint soundness once cured resistance against mild chemicals, hydrocarbon fuels, sea water
- Non-toxic. Can be used in potable water applications, swimming pools

Standards BITUSUL PS PG complies with the requirements of: BS eNiSo 11600:2003 + A1:2011 (formerly BS 4254), BS 5212: Part 1, WrAS- BS 6920 Test on effect of water quality, ASTM C 920, Type m, Grade P, Class 25, USe T

TECHNICAL PROPERTIES

(The properties shown below were obtained under laboratory conditions).

Color	Grey/white
Density	1.22± 0.03
Solid Content	➤ 60%±2
Heat Reflectivity	Good
Toxicity	Non Toxic
Elongation	>300 %
Abrasion Resistance	Good
Impact resistance	Good
UV Resistance	Excellent
Application temperature, [°C]	10 to 50 degrees C
Service temperature, [°C] -20 to 70	-20 TO 70 deg.C

APPLICATION INSTRUCTION

JOINT PREPARATION

The joint surface must be clean, dry and free from oil, loose particles, cement laitance and other contaminants which may affect the adhesion. A thorough wire brushing, grinding, sand blasting or solvent cleaning may be required to expose a clean and sound substrate. The compressible joint filler shall be cut back to expose a uniform joint depth.

PRIMING

Primer should be applied to clean, dry surface prior to the installation of backer rod or bond breaking tape. The primer shall be applied by a brush in a thin coat application and shall be allowed to become tack free prior to the application of the sealant. The joint edges shall be re-primed if the sealant is not carried out within 3 hours of application of the primer. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the groove before applying the primer.

BACK-UP MATERIAL

A bond breaking backing rod shall be inserted into all movement joints to avoid a three sided adhesion. Use of a backing rod will ensure proper joint depth and at the same time facilitate the formation of an hour glass profile on the applied sealant.

The backer rod will also provide resistance to sealant tooling pressure and help to attain proper wetting of the substrate when the sealant is being tooled. The backing rod being inserted into the joint shall be of a diameter which is at least 20% larger but not greater 33% of the joint width.

This will ensure that the backer rod remains in compression and in place during sealant installation. For static and joints where the depth is not sufficient for the use of the backing rod, a bond breaking tape may be applied to prevent the three side adhesion.

CAUTION: Do not damage or poke holes in the backer rod during or after installation, since this may cause air bubbles in the sealant and affect its performance.

MIXING

BITUSUL PS PG is supplied in pre-weighed two parts pack which requires on site mixing. Pour the hardener (Part B) into the base (Part A) pail and mix thoroughly with a slow speed drill (300-400 rpm) fitted to a flat bladed paddle for 1-2 minutes till a uniform colour and consistency is achieved.

DO NOT PART MIX. Since the base and the curing agent ratio controls the ultimate physical properties like adhesion, durability and strength, one complete kit has to be mixed at a time.

The side and base of the container shall be periodically scrapped with a scrapper to ensure that the curing agent is properly dispersed and blended in the mix.

APPLICATION

Pour the mixed material directly into the joint from the pail. Once the sealant has been installed a suitable rounded tool soaked in soapy water can be used to achieve an hour glass profile. Any masking tape applied should be removed immediately after the sealant is installed.

LIMITATIONS

It is not recommended for: 4 Vertical joints movement joints having mAF>25%
 Damp and contaminated surfaces
 Asphalt pavements
 Over painting (paint compatibility with sealant shall be checked prior to painting)
 Joints >50mm width

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 for butt joints and 1:1 for floor, static and lap joints.

The joint depth shall not exceed the width. The joint width and depth should be maintained as recommended:

- Joint Width 6 mm (minimum) 50 mm (maximum)
- Joint Depth 6 mm (minimum for porous surfaces) 5 mm (minimum for non porous surfaces)

- 20mm for heavily trafficked floor joints and areas exposed to hydrostatic pressure

COVERAGE

Length of joints in meters filled per 1 l of BITUSUL PS PG.

	Depth (mm)				Width (mm)			
	6	10	15	20	25	30	40	50
6	27.5	16.5						
10		10	6.5					
15			4.4	5	2.6	2.2		
20				3.3	2.0	1.6	1.25	
25				2.5	1.6	1.3	1.0	0.80
30						1.1	0.82	0.67
40							0.62	
50								

PACKAGING: 5 Ltrs Sets

STORAGE

Store under cover, out of direct sunlight, clear of the ground on pallets and protect from extreme temperatures. In tropical climate the product must be stored in air conditioned environment (<25°C).

Shelf life is 12 months when stored as above.

PRECAUTIONS

As with all construction chemicals products caution should always be exercised. Protective clothing such as gloves and goggles shall 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.

There are no known health hazards associated with BITUSUL PS PG.

Clean all the tools with water after use.
Hardened materials can be removed
mechanically only. Allow the waste to cure. Seal

it into a suitable container and bury in landfill as
per the local regulations.

Note: Whilst any information contained herein is true, accurate and represents our best knowledge and experience, no warranty is given or implied with any recommendations made by us, as the conditions of any labor involved in the application is beyond our control. BAUTECH shall not be liable for any injury, loss or damage, direct or consequential, arising out of the use of this product. It is the responsibility of the user to ensure that the product meets his particular requirements and to use it in a suitable way. Field service, where provided, does not constitute supervisory responsibility. For additional information contact your local BAUTECH representative.



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