

BAUSEAL PS GG

Two Part Gun Grade Polysulphide Joint Sealant

DESCRIPTION

BAUSEAL PS GG is a non slumping two component, chemically curing Polysulphide joint sealant.

BAUSEAL PS GG is specifically designed to be used as a watertight seal for moderate movement and control joints. 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.

BAUSEAL PS GG has excellent adhesion to concrete, stone, metals and other common building substrates. The cured sealant has good resistance to most environmental chemicals & resists deterioration on prolonged exposure to UV. BAUSEAL PS GG is suitable for use in both vertical and horizontal applications. The sealant has a Movement Accommodation Factor (MAF) of ±25%.

TYPICAL USES

- Sealing of movement and control joints in:
- Bridge decks and highway pavements
- Water treatment structures
- Airport runways and apron pavements
- Metal & Concrete sea walls

 Parapet walls Basements & Super structures sealing of roofing flashing penetrations & terminations.

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

BAUSEAL PS GG complies with the requirements of:

-- --

BS 4254

BS 5212: Part 1,

WRAS- BS 6920 Test on effect of water quality ASTM C 920, Type M, Grade NS, Class 25, USE T

TECHNICAL PROPERTIES

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

Grey/white 1.5± 0.03 g/cc		
1.5± 0.03 g/cc		
2.02 0.00 6/ 00		
Thixotropic paste		
Negligible		
>120 minutes		
20=35		
5 hours		
>25 N		
>300		
No Deterioration		
Passes		
pH 2.5 to 11.5,		
Hydrocarbon fuels,		
vegetable oil, urea,		
seawater		
No Deterioration		
24 hours		
7 days		
5 to 50 deg C		
-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 & APPLICATION

BAUSEAL PS GG is available in a ready to mix container, with all the components packed in a single tin. The material shall be mixed thoroughly with a slow speed drill (300-400 rpm) fitted with a flat bladed paddle for 2-3 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 into the mix.

Load the sealant immediately into the barrel gun by a heavy duty follower plate. Remove the cap and nozzle from the gun and ensure that the plunger is pushed all the way forward. The follower plate shall be placed on the flat surface on top of the pail. Place the barrel gun over the lip of the follower plate and depress the release plate and draw the material into the barrel by pulling back the plunger slowly. Fix the nozzle and start extruding into the joint firmly by maintaining an even pressure on the trigger of the gun.

On vertical joints, sealant extrusion shall start from the bottom of the joint and continued to the top.

For deep vertical joints, the sealant shall be filled in 2 to 3 applications in order to avoid air entrapment and sagging. Once the sealant has been installed a suitable rounded tool soaked in a soapy water solution can be used to achieve a smooth hour glass profile. Any masking tape applied should be removed immediately after the sealant is installed.

LIMITATIONS: BAUSEAL PS GG is not recommended for:

Joints greater than 30mm width

Overhead joints Movement joints having MAF >25%

Damp and contaminated surfaces

Asphalt pavements

Over painting (paint compatibility with sealant shall be checked prior to painting)

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:

- <u>Joint Width</u> 6 mm (minimum) 30 mm (maximum)
- <u>Joint Depth</u> 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 BAUSEAL PS GG

Depth (mm)

Width (mm)

	6	10	15	20	25	30
6	27.5	16.5				
10		10	6.5	5.0		
15			4.4	3.3	2.6	2.2
20				2.5	2.0	1.6
25				2.5	1.6	1.3
30				100	1.6	1,3

PACKAGING: 2.5 Ltrs

STORAGE

Store out of direct sunlight, clear of the ground on pallets. Store under cover, out of direct sunlight 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 BAUSEAL PS GG

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.



BAUTECH CHEMICALINDUSTRIES, P.O.BOX: 23054, AJMAN, UNITED ARAB EMIRATES TEL: +9716 7441150 FAX: +9716 7441120, Email: marketing@bautechindustries.com