

# ESSRBOND GG 105

2 Component Gun Grade Polysulphide Joint Sealant



The Stress Free Bonding

TDS No : SR 3- TDS-014  
Rev No. 01 / Nov 2019

## TECHNICAL DATA SHEET

### DESCRIPTION

ESSRBOND GG 105 is a Non sagging, 2 component, chemical resistance elastomeric, Polysulphide joint sealant. ESSRBOND GG 105 is specifically designed to be used as a watertight seal for moderate movement and control joints. It is based on polysulphide polymer. After curing it forms a tough, flexible and non-staining rubber like seal. It has excellent adhesion to concrete, stone, metal and is resistant to many chemicals, shrinkage, aging, Thermal stress and the effects of outdoor exposure. ESSRBOND GG 105 is suitable for use in both vertical and horizontal applications.

### CHARACTERISTICS

- 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 UV exposure
- Prevents uncontrolled cracking by allowing expansion and contraction during temperature changes
- Excellent adhesion to most common building substrates

- Good resistance to ageing. retains joints soundness once cured
- Resistance against mild chemicals, hydrocarbon fuels, sea water
- Non-toxic once cured. Can be used in potable water reservoirs and swimming pools

### STANDARDS

ESSRBOND GG 105 complies with the requirement of :BS EN ISO 11600:2003 (formerly BS 4254), BS 6920 test on suitability with potable water. Manufactured under ISO 9001 & ISO 14001

### TECHNICAL PROPERTIES:

PROPERTIES	RESULTS	TEST METHODS
Full Cure Standard Condition,	7days	—
Color	Grey	—
Chemical Resistance Solvent & Veg oils.	Ph.2.5 to 11.5 Hydrocarbon Fuels	ASTM D 543
Density [g/cc]	1.6 ± 0.05	ASTM D 792
Shrinkage	Negligible	ASTM C 531
Pot life	Passed >120	BS 4254
Shore 'A' Hardness	10-20	ASTM D 2240
Tack Free Time	5 hours	—
Elongation	Passed >300%	ASTM D 412
Cracking & Chalking after Heat Ageing 70°C	No Deterioration	TT-S-0027E
Water Potability	Passes	BS 6920
Initial cure @ Standard Condition	24 hours	—
Application Temperature	+5°C to +40°C	—
Service Temperature	-20°C to +80°C	—
Movement Accommodation Factor ( MAF)	25 %	—

### Our Product Range



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### APPLICATION INSTRUCTION

### JOINT PREPARATION

The joint edges must be clean, dry and free from oil, loose particles, cement and other contaminants which may affect the adhesion.

### PRIMERING

Primer shall be applied to a clean and dry surface prior to the installation of backer rod or bond breaking tape. apply ESSRBOND PP 110 porous primer on surface. The Primer shall be applied by a brush in a thin coat. For obtaining a clean and neat finish, masking tape shall be applied on both the edges of the joints before applying the primer.

### BACK-UP MATERIAL

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

ESSRBOND GG 105 is available in a ready to mix container, with all the component packed in a single tin.

The material shall be mixed thoroughly with a slow speed drill (300-400rpm) fitted with a flat bladed paddle for 2-3 min till a uniform colour and consistency is achieved.

Do not part 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.

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.

### JOINT DESIGNS

The width of the joint should be a minimum of 4 times the anticipated movement. Joints with cyclic movement should have a wide to depth ratio of 2:1 for butt joints and 1:1 for floor, static and lap joints. The joint width and depth should be maintained as recommended:

#### Joint Width

- 6mm (minimum)
- 30mm (maximum)

#### Joint Depth

- 6mm
- 20mm for trafficked floor joints and areas exposed to hydrostatic pressure checked prior to painting)

### LIMITATION

- EB - GG 105 is not recommended for:
- Joints greater than 30mm width
  - Overhead joints
  - Movement joints having MAF >25%
  - Damp and contaminated surface
  - Asphalt pavement
  - Over painting (paint compatibility with sealant shall be checked prior to painting)

### HEALTH & SAFETY

Keep out of reach from children. Before handling, read both the product and material safety data sheet for detailed use and health information.

### STORAGE

Store in a cool and dry place. away from direct sunlight and moisture. Storage temperature to be below 35°C

### SHELF LIFE

12 months from the date of manufacturing in unopened condition.

### PACKING

ESSRBOND GG 105 : 1Kg, 4 Kg, 32 Kg



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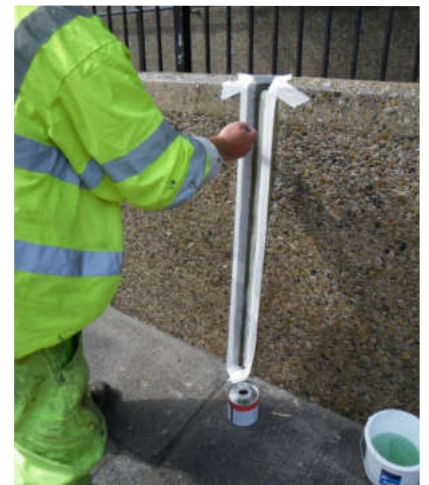
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## TECHNICAL DATA SHEET

### COVERAGE

Length of joints in metres filled per litre of ESSRBOND GG 105

Depth (mm)	Width(mm)					
	6	10	15	20	25	30
6	27.5	16.5				
10		10	6.5	5		
15			4.5	3.3	2.6	2.2
20				2.5	2.0	1.6
25					1.6	1.3



### NOTE

The company's product are sold subject to the company's standard terms and conditions of sale product are warranted against defective materials & workmanship. The company makes every effort to ensure all the information, recommendations or the specifications provided by it are accurate and true. However as the company has no control over the conditions of use, it don't accept any liability, either directly or indirectly regarding the usage of its product.

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