

TECHNICAL DATA SHEET

ESSRBOND PG 101 Pour Grade Polysulfide Sealant

TDS No : SR3-T-05, Date :Nov. 2015

ESSRBOND PG 101 is a high performance, self leveling, chemical resistant elastomeric joint system based on polysulfide polymer. It is resistant to many chemicals, shrinkage, aging, thermal stress and the effects of outdoor exposure. It is highly resilient and has excellent recovery characteristic after extended period of compression or elongation

Recommended uses :

- Concrete Roads and Highways
- Rigid Pavements in Airports
- Potable water retaining structure
- Floor joints in building
- Bridges

Specification :

BS – 5212 : 1990 – Type FB (Fuel and Flame resistant) for cold applied joint sealant system for rigid pavements, (Ministry of Road Transport and Highways (MORTH) specification for road and bridge work clause 602.2.8 and clause 602.11.4 state that cold applied two part polysulfide sealant shall meet BS – 5212 : 1990.)

It also meets the requirement of BS-6920. (Sealant for use in contact with potable water) and WRC – for use in potable water (Grey)

Joint size suitability :

<u>Joint width</u>	<u>Design Joint width</u>	<u>Joint Depth</u>	<u>Width to depth ratio</u>
Minimum - 6 mm Maximum : 50 mm	Floor Joint : Expected movement X 4.33	Porous surface : >12 mm Maximum : 25 mm	1:1 for floor joints
			<u>Movement factor</u>
			Floor joint : 30%

Typical Properties :

Curing time : 7 days at 20°C
 Colour : Grey
 UV Resistance : Good
 Weatherability : Good
 Chemical resistance : Resistance to most alkalis & dilute acids, petrol, diesel or jet fuel and many solvent and vegetable oils.





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Flammability : Flame and Fuel resistant as per BS specification
Service temperature : -40°C to +80°C

Service life and Maintenance :

Anticipated life : 20 years +

Correctly applied, the sealant should not require maintenance. However, sealant that has become damaged can be replaced by cutting out the effected area, cleaning & priming the joint surfaces and applying fresh sealant as in the original manufacturer's specification.

Priming :

Primer ordering quantity estimation : Approx. 60 meters per 250 ml tin (Depends on joint size)

Apply ESSRBOND PP 110 primer on surfaces as follows : Brick, concrete, natural stone, stained timber frame, glazed tile (unglazed edge)

Application instruction :

Joint surface to be applied should be clean dry and free from loose material, dust oil or grease. Apply appropriate quantity of ESSRBOND PP 110 primer. Empty out the curing agent sachet in to the base in the can. Use a slow speed drill machine / mixer fitted with a spiral stirrer and mix for 10 minutes. The product is ready to be used when you get a uniform smooth paste without any streak of grey or white colour. Install a backer rod in the joint to be applied with sealant. Pour or gun (with a conventional caulking gun) the mixed sealant in the prepared joint. Sealant will get leveled in the joint. Please refer detail Sealant Application Guideline.

Packing and Shelf life : 4 x 4 kg in a carton and 4 x 6 kg in a carton. Shelf life is 12 months from date of manufacturing in unopened condition

Health & Safety :

The curing agent contains Manganese Dioxide. The base is labeled as "Irritant" and curing agent is labeled as "Harmful"

For further information please refer to MSDS or contact Technical Service Department

Note :

The company's products are sold subject to the Company's standard terms and conditions of sale. Products are warranted against defective materials and workmanship. The company makes every effort to ensure that 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 cannot accept any liability, either directly or indirectly regarding the usage of its products. Product specifications are subject to change without prior intimation to users as the products are being continuously upgraded.