

DURA BUILD CARE PVT. LTD.



AN ISO 9001 : 2008 COMPANY

“Quality, Integrity Assured.”

DURASIL GPS (GUN GRADE) / PPS (POURING GRADE)

Polysulphide based Elastomeric Sealant for Movement Joints

Description:

DURASIL GPS & PPS are dual pack polysulphide based joint sealant in two grades as above. **DURASIL GPS** is gun applied for non-sag type for vertical and inclined expansion/contraction (movement) joints and **DURASIL PPS** is pouring grade for horizontal movement joints. When two packs are mixed i.e. polysulphide with curing agent, it forms a tough, flexible, durable rubber like material with strong adhesive property on most building substrates.

Standards:

ASTM 920 (G. Grade)

BS 5212 (Section Fuel Resistance), Pouring Grade

BS 4254

Din 18540 & US Federal Specification TTS-00227 E Class A

Uses:

DURASIL GPS & PPS are used to form long lasting weather resistant and waterproof seals in joints subject to regular movement or permanent deformation. **GPS** is exclusively used in water retaining structure under passes, tunnels, basements, pre-cast concrete elements, bridges etc. **PPS** is used in runways, rigid pavements or in horizontal movement joints.

Features :

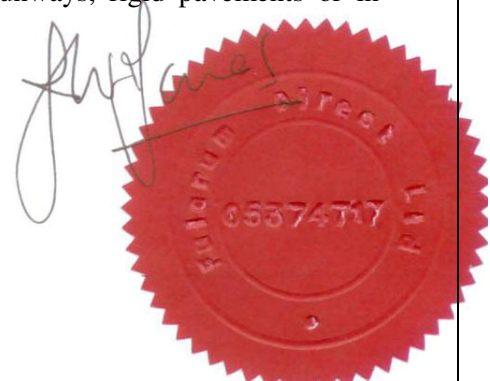
- ❖ Long lasting elasticity
- ❖ High movement capability
- ❖ Excellent adhesion to many substances
- ❖ Good AFT fuel and chemical resistance
- ❖ No sag with **GPS**
- ❖ Easy to pour on horizontal joints with **PPS**

Application :

Surface Preparation: All the surfaces must be clean, dry and free from any loose particles, grease or oils. Correct joint design should be followed. Above 10 mm joint width, to use economical quantity of **DURASIL**, Width: Depth ratio should be maintained at 2:1 by reprofiling the joint with our **Durakrit** polymer mortar. Where joints have been treated with fiber filler board, they should be raked back to the required depth and then compressible solid pipe or polyurethane foam of diameter matching joint width as back filler should be used and a bond breaker tape be placed (no three side bonding). Use our **Durasil P** Primer on both inside surfaces of the joints. Edges may be converted with masking tape.

Joint Design :

Minimum joint depth	8 mm
Maximum joint width	40 mm
Width L Depth ratio Upto 10 mm	1 : 1
For 10 mm to 40 mm width, width : depth ratio	2 : 1



Mixing :

Both packs of polysulphide (large quantity) and curing agent (small quantity) are premeasured.

NO PART MIXING IS ALLOWED.

Use large pack and smaller pack at 92 :8 by wt.

Use paddle type mixture (low speed drilling machine) for mixing both the pack to a smooth uniform consistency.

Mixing time is normally around 8 to 10 minutes. Place the uniformly mixed sealant into the joints by tapping.

Tools off to a lightly concave profile with a spatula. Remove masking tape from the edge.

Technical Data :

Pack A	:	White paste in large quantity with cross linking Polysulphide polymer	
Pack B	:	Black paste in small quantity	
Mixing ratio of Pack A: Pack B	:	92:8	
Primer on inside surfaces of the joints	:	Use Durasil P @ 6 to 8 m ² per ltr	
Movement capacity/expansion/contraction	:	± 25%	
Shear Movement	:	20 %	
Pot Life	10 ⁰ C	:	8/10 hrs with curing time 50 to 60 days
	20 ⁰ C	:	5/7 hrs with curing time 30 to 40 days
	30 ⁰ C	:	4/6 hrs with curing time 21 to 27 days
	35 ⁰ C	:	3/5 hrs with curing time 15 to 21 days
	45 ⁰ C	:	1.5 to 2 hrs with curing time 10 to 21 days
Density of the mixed material	:	1550 Kg/ m ³ at 30 ± 20C	
Shore "A" hardness	:	20-25	
Service temperature	:	Upto 800C	
Application Temperature	:	50C to 400C	
Shrinkage	:	Upto 0.50%	
Chemical resistance	:	Dilute acids, alkalis, AFT fuel, kerosene, diesel Petrol, lubricating oil, white spirit	
Packing	:	In 1 Kg & 4 kg	

Durasil P: in 250 ml and 1 ltr pack. It is recommended over concrete, brickwork, asbestos, gypboard, natural or artificial stone, glass, ceramics, anodized aluminium, timber and rigid PVC etc. primer is not required on epoxy or polyester surfaces but roughening with emery paper is required. **Durasil P** is a single pack material and highly inflammable. Do not allow naked flame near by.

Shelf Life	:	12 months if unopened
Storage condition	:	Keep in a dry place and away from extremes of heat.

IMPORTANT: Though the product may change with some code as suffix or addendum to the principal or original name out of some minor adjustment and fine tuning in the formulation due to our continuous research and development but shall exhibit the stated properties with more improvement.

WARRANTY: Our high potency products are manufactured under stringent National/International Quality Standard specifications and guaranteed against any manufacturing defect. Suggestions and recommendations are made here based on our most practical experience and exposure over 25 years in the field and are believed to be most appropriate and correct BUT no liability can be accepted by us, as the conditions of use of such products are beyond our control.

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