



THE STRESS FREE BONDING



Proudly made in India

## TECHNICAL DATA SHEET

# ESSRBOND PU 40

CGSEAL/TDS/010, Date : SEPT. - 2022

### DESCRIPTION

ESSRBOND PU 40 is an elastic, single component, moisture curing, Non Sag, Gun grade hybrid polyurethane Elastomeric sealant based on the pioneering silane cure technology.

Design to seal construction and automotive joints that are subjected to movement, PU 40 has a very good adhesion to most construction and industrial materials.

### FEATURES

- One Part - moisture cure - minimizes wastage
- Easy to apply
- Permanently elastic over a wide range of temperatures
- Non staining including Hydrophobic staining
- Excellent adhesion to a wide variety of substrates like metal to metal, metal to glass, metal to concrete etc.
- High UV and aggressive atmosphere resistance
- Environmentally friendly

### TECHNICAL PROPERTIES:

PROPERTIES	RESULT
Base	Hybrid Polyurethane
Color	White / Black /Grey
Density	1.5 gm/cm <sup>3</sup>
Skin Formation	30 min
Sagging	Non Sagging
Full Curing	3 mm / 24 hrs.
VOC Content	<3%
Shore A Hardness	25 - 35
Tensile Strength	1.5 Mpa
Elongation at Break	>650% Approx.
Application Temperature	5°C to 40°C
Service Temperature	-40°C to 100°C
MAF	25%



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### USES

ESSRBOND PU40 sealant is designed for sealing expansion and control joints, In pre-cast concrete panel joints, window perimeters, steps, risers, roof and tilt-wall joints and between construction materials of dissimilar expansion joints. Some substrate surfaces may require priming for better performance.

In automotive Body Construction Of Cars, Containers, Buses Etc.

- ◆ Sealing And Bonding Of Ventilation Ducts, Gutters And Spouts Etc.
- ◆ Sealing Of Sheet Metal Seams
- ◆ For Vibration Reduction In All Type Of Sheet Metal Assembly Works
- ◆ Sealing Against Water, Air, Gas And Dust

### JOINT DESIGN

ESSRBOND PU40 can be applied to joints between 5 mm and 50 mm wide and applied between 5 mm and 25 mm deep. Joints which are expected to experience continual cyclic movement should be designed such that the sealant is applied to an optimum width to depth ratio of 2:1 subject to the overriding recommended minimum sealant depths of:

- ◆ 5 mm for accurately formed, non-porous surfaces such as glass and metal,
- ◆ 10 mm for precast concrete, brick and other porous surfaces.

The sealing slot should be formed using a backer rod which supports the sealant during application and provides a bond breaker at the base of the slot to allow movement to be accommodated over the full width of the sealant

### APPLICATION

Insert sausage in to sausage Gun. Cut end off sausages and attach cap and nozzle and cut nozzle to desired bead size. Mask joint sides and insert a suitable backing rod if required. Extrude firmly into joint and tool off using a suitable tool.

**Recommendation :** ESSRBOND PU 40 Available in White ,Black, Grey colors.

White sealant for Metal to Metal ; Black sealant for Metal to Glass & Grey sealant for concrete joints.

### STANDARD

ESSRBOND PU 40 complies with

- ◆ ASTM C 920
- ◆ Manufactured under ISO 9001 & ISO 14001

### HEALTH & SAFETY

Keep Away From Heat And Flame. Avoid Contact With Eyes. Do Not Ingest. Keep Container Closed When Not In Use. Keep Out Of Reach Of Children.

### STORAGE

Store in a cool, dry place. Away from direct sunlight and moisture. Storage temperature to be below and 30°C.

### SHELF LIFE

12 months from date of manufacturing in unopened conditions.



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### PACKING

ESSRBOND PU 40 is supplied in 600ml Aluminum foil sausage, 10pcs packed in one box.



### 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.