

TECHNICAL DATA SHEET**ESSRBOND PU45**

One part, Non sag Polyurethane sealant for Automotive

TDS No : SR3-T-102, Date :JULY. 2021



ESSRBOND PU 45 is a one component, moisture curing, non-sag, gun-grade polyurethane elastomeric sealant based on the pioneering silane cure technology designed for vehicle body assemblies. After cure, Essrbond PU 45 forms a flexible resilient seal that has adhesion to a wide variety of substrates and exhibiting excellent mechanical and chemical resistance.

USES :

- 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

CHARACTERISTICS / ADVANTAGES :

- Good thixotropic and non sag
- Primerless adhesion to most substrates
- Excellent mechanical and chemical resistance
- Bubble-free curing
- Solvent-free
- Paintable with water and PU based paint
- Exterior and interior application
- UV stable and weather resistant
- Solvent and Isocyanate free
- Virtually odorless
- Non-corrosive

COMPLIANCE & STANDARDS :

- ASTM C-920
- ISO 9001 : 2015, ISO 14000 : 2015,
- IATF 16949 : 2016



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TYPICAL PROPERTIES:

	Value
Appearance	Non-sagging paste
Colour	White / Black
Tack free time @ 25 oC / 55% RH	15 mins approx
Curing speed @ 25 oC / 55% RH	3.0 to 4.0 mm / 24 hrs
Slump / flow (vertical and horizontal @ 5°C and 50°C	0 (no failure)
Specific gravity	1.45 +/- 0.05
Hardness (shore A)	40 approx.
Staining and colour change	No staining and no colour change
Elongation at break	>500 %
Tensile at break	1.6 MPA approx
Shrinkage on curing	< 2%
Application temp.	5°C to 40°C
Service temp.	-60°C to 110°C

INSTRUCTION FOR USE:

Ensure joint sides are clean and dry. Remove any oil, grease, dirt or other contaminants by solvent / IPA wipe

Insert the sealant sausage / cartridge in the application gun. Cut end off nozzle to desired bead size. Extrude firmly into joint and tool off using a suitable curved tool. Tool the sealant immediately with tooling knife by pressing against the joint to remove air pockets & to ensure 100% contact and adhesion with the surface.

Use only water (or a very mild detergent) to finish the surface.

Cleaning :

After sealing the joint the tools and equipments should be cleaned immediately with kerosene or any other cleaning solvents

STORAGE:

Material should be stored in a cool and dry place. Temperature of storage should between 5° C to 35° C. When stored in original unopened containers at above temperature ESSRBOND PU 45 has a shelf life of 12 months from date of manufactured. Containers should always be sealed when not in use and stored away from direct sunlight and weather. Rotation of stock is an absolute necessity. Cartons should always be stacked upright with the nozzle tip pointed upwards. DO NOT stack cartons on their side. NEVER stack cartons more than 8 feet high. DO NOT store within 1 meter (4 feet) of roofline of the warehouse or storage building



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PACKING :

ESSRBOND PU 45 is supplied in 600 ML sausage and packed as 20 piece per box and 310 ml cartridges packed as 25 piece per box.

CAUTION :

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.

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.