TECHNICAL DATA SHEET (TDS)

PU METAL SEALANT (AUTOMOTIVE & CONSTRUCTION)

1 – DESCRIPTION

PU METAL SEALANT is a one-component, high-modulus polyurethane sealant that cures on exposure to atmospheric humidity. It possesses excellent adhesion to sheet iron, aluminum, stainless steel, lead, copper, ceramic, glass, wood and various plastic materials.

2 – PROPERTIES

- Permanently flexible
- Non-sag consistency - Exceptional thixotropy
- Non-sticky / does not pick up dirt
- Minimal shrinkage
- Improved storage stability
- Easy to gun, can be easily smoothed
- Over-paintable
- **Conforms to the requirements of VOC content specifications in LEED credit EQc4.1 "Low-emitting products" of SCAQMD rule 1168.**
- **Meets the French VOC requirements for class A+**

3 - APPLICATIONS

- Body construction of cars, containers, caravans 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.

4 - INSTRUCTIONS

- Surface preparation: Joint surfaces must be dry, clean and free of all contamination. Glass, metal and other non-porous surfaces must be free of any coatings and wiped clean with solvent.
- Cut opens the cartridge, screw on nozzle and cut off tip at desired angle. Take off the aluminum cover at the bottom of the cartridge. Insert cartridge in gun and apply the sealant

bubble-free continuously into the joint. Fill the joint completely. Smoothen it by pressing with a spatula or similar apparatus.

Consumption (approx.)

Joint width	15 mm	20 mm	25 mm	30 mm	35 mm
Joint Depth	8 mm	10 mm	12 mm	15 mm	15 mm
Joint length / 600 ml	5 meters	3 meters	2 meters	1,3 meters	1,1 meters

5- STORAGE AND SHELF LIFE

12 months if stored properly in its original package.

6- PACKAGING

Product	*Volume*	*Package*
White / Black / Grey	310ml	12
White / Black / Grey	600ml	12

7- RESTRICTIONS

- Avoid application below 5 °C and above 40 °C.
- Do not apply on frozen or wet surfaces or through standing water.

8- TECHNICAL PROPERTIES

BEFORE CURING	
Basis	: Polyurethane
Consistency	: Thixotropic
Curing Mechanism	: Moisture Curing
Density	: 1,18± 0,03 g/ml
Skin formation time	: 60 ± 10 min. (23°C and 50% R.H)
Curing Rate	: Min. 3 mm/day (23°C and 50% R.H)
Sagging	: 0 mm (EN ISO 7390)
Temperature Resistance	: -40°C to +90°C
Application Temperature	: +5°C to +40°C

AFTER CURING		
Hardness Shore A	: 45±3	After 28 days
Paintibility	: Yes *	

*Considering the diversty of paint base and quality,compatibility tests should be done before application.

MECHNANICAL PROPERTIES (ISO 8339)	
Elongation at break	: Min. 120%
E100 Modulus (23 °C)	: 0.40-0.45 N/mm^2

MECHNANICAL PROPERTIES (ASTMD412)	
Elongation at break	: Min. 400%
Tensile Strength	: Min 2.0 N/mm^2