

TECHNICAL DATA SHEET (TDS)

M45 PU CONSTRUCTION & AUTOMATIVE SEALANT

1 – DESCRIPTION

Demsun M45 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
- No change in volume - No shrinkage
- Improved storage stability
- Easy to gun, can be easily smoothed
- Over-paintable

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.

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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	310ml	12
Black	310ml	12
Grey	310ml	12
White(Sausage)	600ml	20
Black(Sausage)	600ml	20
Grey(Sausage)	600ml	20

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	: 1,20± 0,03 g/ml
Tack free time	: 20-25 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	
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Hardness Shore A	: 45-50	After 28 days
Paintability	: Yes *	

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

MECHANICAL PROPERTIES (ISO 8339)

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

MECHANICAL PROPERTIES (ASTMD412)

Elongation at break	: Min. 400%
Tensile Strength	: 1.5-2.0 N/mm ²