



BOSS[®] PU 50 POLYURETHANE SEALANT

TECHNICAL DATA

Basis	Polyurethane
Consistency	Stable paste
Curing System	Moisture curing
Density**	1.24 g/ml
Skin formation time* (23°C/50% R.H.)	50 min
Curing speed* (23°C/50% R.H.)	3 → 4 mm/24h
Flow, Sag, or Slump	Nil
Hardness, Shore A points** (ISO 868)	40 ± 5
Tensile Strength** (ISO 37)	1.52 N/mm ²
Elongation at break** (ISO 37)	600 %
Maximum allowed distortion (ISO 11600)	± 20 %
Temperature resistance**	-30 °C → 90 °C
Application temperature	5 °C → 35 °C

* These values may vary depending on environmental factors such as temperature, moisture, and type of substrates.

** This information relates to fully cured product.

Description

BOSS[®] PU 50 is a permanently elastic polyurethane adhesive designed for bonding and sealing in the, automotive and transport applications. It offers strong adhesion to various industry materials.

Properties

- High viscosity & medium open time
- Applicable in warm and humid climate
- Good weather resistance
- Watertight
- Excellent resistance to many chemicals
- Bonds well without primer to a wide variety of substrates.

Applications

- Bonding and Sealing: Ideal for vibrating assembly in caravans & containers
- Suitable for bonding upright components
- Effective for bonding container elements, car body parts, wheel arch extensions.
- Serves as an alternative to traditional welds or spot welds.

Packaging

Colour: White, black.

Packaging: 600 ml sausage, other packaging on request.

Shelf life

12 months in unopened packaging in a cool and dry storage place at temperatures between +5°C & +25°C.

Substrates

Substrates: All metals, epoxy coatings, polyesters, ... There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. No adhesion on glass and PVC. We recommend a preliminary adhesion test on any substrate.

Nature: Rigid, clean, dry, free of dust and grease.

Surface preparation: All smooth surfaces can be treated with Surface Activator.

Application Method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with Boss Cleaner immediately after use.



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Finishing: With a soapy solution or Finishing Solution before skinning.

Repair: With the same material.

Health and Safety Recommendations

Take the usual labour hygiene into account. Use only in well-ventilated areas. Consult the packaging label for more information.

Remarks

- BOSS[®] PU 50 may be overpainted with water-based paints. However, due to the large number of paints and varnishes available, we strongly suggest a compatibility test before application.
- When painted with oxidative drying paints, disturbances in the drying of the paint may occur (we recommend to do a compatibility test before application).
- Remove all traces of soap (tooling) because it will harm the adhesion of the paint onto the sealant.

Disclaimer: This technical data sheet replaces all previous versions. The directives contained within this documentation are the result of our experiments and experience, and have been submitted in good faith. Because of the diversity of the materials and substrates, in addition to the great number of possible applications that go beyond our control, we cannot accept any responsibility for the results obtained. Further, since the design, quality of the substrate, and processing conditions are beyond our control, no liability under this publication will be accepted. In every case, it's therefore recommended to carry out preliminary experiments. BOSS reserves the right to modify its products, without prior notice.

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