



BOSS® 239 HYBRID SEALANT

TECHNICAL DATA

Basis	Hybrid
Consistency	Stable paste
Curing System	Moisture curing
Skin formation time* (23°C/50% R.H.)	Ca. 20-30 min. (*)
Curing speed * (23°C/50% R.H.)	3 mm/24h
Density**	1.40 g/ml
Hardness Shore A points** (ISO 868)	60 ± 5
Max. tension** (ISO 37)	4.20 N/mm ²
Elasticity modulus 100%** (ISO 37)	2.30 N/mm ²
Elongation at break** (ISO 37)	> 300 %
Shear strength**	> 2 MPa (Measured on Stapron®, 2mm paste thickness and 10mm/min test speed)
Temperature resistance**	-40°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® 239 HYBRID SEALANT is a high quality, neutral, onecomponent adhesive based on Hybrid sealant. BOSS® 239 has an excellent primer-less adhesion to ABS.

Properties

- Excellent primerless adhesion on ABS and Stapron® as well as on most other materials.
- Very good mechanical characteristics.
- Combines high end strength with certain rigidity.
- High initial tack and fast build-up of end strength.
- No bubble formation within sealant in high temperature and humidity applications.
- Can be painted with water based systems.
- Good weather and UV resistance.
- Free of isocyanates, solvents, halogens and acids.
- Can be painted with water based systems and industrial varnishes and coatings.

Applications

- Used in the transport industry.
- Bonding of ABS parts.
- For bonding of for instance (imitation) leather, textile, glass, metal, textile, ABS, Plexigla and many synthetic materials, both hard and soft.
- For use in elastic structural bonding applications where a tough and rigid bond is required.
- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans or trailers ...

Packaging

Colour: white

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 and +25°C.

BOSS[®] 239 HYBRID SEALANT

Chemical resistance

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual substrates for bonding, stainless steel, AlCuMg1, AlMgSi1, brass, electrolytic galvanised steel, galvanized steel, AlMg3, staal ST1403

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

Boss 239 also has a good adhesion on **plastics:** polystyrene, polycarbonate (Makrolon®), PVC, ABS, polyamide, PMMA, fiberglass reinforced epoxy, polyester. While producing plastics very often releasing agents, processing aids and other protective agents (like protection foil) are used. These should be removed prior to bonding or sealing. For optimum adhesion the use of Surface Activator is recommended.

NOTICE: bonding plastics like PMMA (e.g. Plexi® glass), polycarbonate (e.g. Makrolon® or Lexan®) in stress loaded applications can give rise to stress cracking and crazing in these substrates. The use of Boss 239 is not recommended in these applications. There is no adhesion on PE, PP, PTFE (Teflon®) and bituminous substrates. We recommend a preliminary adhesion test on any substrate.

Joint Dimensions

The optimal bond thickness for this product is at least 2 mm for the elastic properties to come to full justice.

Application method

Application method: With manual- or pneumatic caulking gun.

Cleaning: Clean with Boss Surface Cleaner or with Boss Swipex, immediately after use.

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

Health and Safety Recommendations

Take the usual labour hygiene into account. Consult label for more information.

Remarks

- Boss 239 is paintable with most waterbased paints, however due to the large number of paints and varnishes available we strongly suggest a compatibility test before application.
- The drying time of alkyd resin based paints may increase.
- Boss 239 can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, like polycarbonate, etc, may differ from manufacturer to manufacturer, we recommend preliminary compatibility test.
- Boss 239 has a good UV resistance but can discolour under extreme conditions or after very long UV exposure.
- Boss 239 can not be used as a glazing 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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