

**BOSS® 238 HYBRID SEALANT****TECHNICAL DATA**

Basis	SMX Hybrid Polymer
Consistency	Stable paste
Curing System	Polymerisation through moisture
Density	1.68 g/ml
Skin formation time* (23°C/50% R.H.)	10 min
Curing speed * (23°C/50% R.H.)	4 - 3 mm/24h
Tensile Strength** (ISO 37)	> 3.20 N/mm ²
Elongation at break** (ISO 37)	500 %
Hardness Shore A points** (ISO 868)	45 ± 5
Maximum allowed distortion (ISO 11600)	± 20 %
Elastic recovery (ISO 7389)	> 75 %
Elasticity modulus 100%** (ISO 37)	1.35 N/mm ²
Application temperature	5°C → 35°C
Temperature resistance**	-40°C → 90°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® 238 is a one-component high quality, neutral, elastic, adhesive. Sealant with fast strength development, utilizing SMX - polymer technology. It is a idea for a wide range of structural bonding applications.

Properties

- Fast curing with a short open time
- Excellent adhesion on almost all surface, even if slightly moist
- High elasticity
- No bubble formation in high temperature or humidity
- Good weather and UV resistant
- Free of harmful chemicals like isocyanates, solvents, halogens and acids
- Paintable with water based and industrial coatings

Applications

- Elastic structural bonding where a tough and rigid bond is required
- Structural bonding in vibrating constructions
- Joints between metal plates

- Elastic structural bonding in automotive applications: buses, trains, trucks, caravans or trailers

Packaging

Colour: 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.

Chemical resistance

Good resistance to (salt) water. Medium resistance to alkalis, aliphatic solvents, mineral oils, grease, diluted inorganic acids. 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.

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Surface preparation: Porous surfaces in water loaded applications should be primed. All smooth surfaces can be treated with Surface Activator. BOSS® 238 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® 238 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 Surface Cleaner immediately after use

Finishing: With a soapy solution before skinning.

Repair: With the same material

Health- and Safety Recommendations

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

Remarks

- BOSS® 238 is paintable with most water-based 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® 238 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® 238 can not be used as a structural glazing sealant
- When applying, make sure that the surface of the materials is not smudged with sealant
- BOSS® 238 has a good UV resistance but can discolour under extreme conditions or after very long UV exposure

Environmental clauses

Leed regulation:

BOSS® 238 conforms to the requirements of LEED. Low –Emitting Materials: Adhesives and Sealants. SCAQMD rule 1168. Complies with USGBC LEED 2009 Credit 4.1: Low-Emitting Materials – Adhesives & Sealants concerning the VOC-content.

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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