

BOSS® 234-HYBRID SEALANT

TECHNICAL DATA

| | |
|-------------------------------------|------------------------|
| Basis | SMX Hybrid Polymer |
| Consistency | Stable paste |
| Curing System | Moisture curing |
| Skin formation* (20°C / 65% R.H.) | Ca. 22 min |
| Curing speed * (20°C / 65% R.H.) | 3 mm/24h |
| Hardness** | 50 ± 5 Shore A |
| Density** | 1.68 g/ml |
| Maximum allowed distortion | ± 20 % |
| Max. tension (DIN 53504) | 1.77 N/mm ² |
| Elasticity modulus 100% (DIN 53504) | 1.33 N/mm ² |
| Elongation at break (DIN 53504) | >200 % |
| 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® 234 HYBRID SEALANT is a high quality, neutral, elastic, one-component joint sealant based on SMX-Polymer.

Properties

- Good adhesion on most common building and automotive application
- Meets GEV EMICODE EC-1 PLUS: very low emission
- Easy to tool, extrude (even at low temperatures) and finish in all weather conditions
- Phthalate-free
- Tin-free
- Does not shrink
- Stays elastic after curing
- Good colour stability, weather and UV resistance
- No odour

- No bubble formation within sealant in high temperature and humidity applications
- Primerless application on many substrates (except where water pressure may occur)
- Can be painted with water based systems
- Solvent, halogen, acid and isocyanate free

Applications

- Expansion and indoor connection joints in the building industry, sealing of perimeter joints between window and door frames, joints between wall and ceiling
- Applications where the sealant needs to be overpainted with water based paints and varnishes

Automotive and industrial applications of sealing and bonding wood, metal, glass, ceramics, FRP etc.



BOSS® 234-HYBRID SEALANT

Packaging

Colour: white and 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, aliphatic solvents, hydrocarbons, ketones, esters, alcohols, diluted mineral acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrocarbons.

Substrates

Substrates: all usual building substrates, aluminium, concrete, stone, stucco, treated wood, PVC, ... Not suitable for bitumen, PP, PE, PTFE and silicones.

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

Surface preparation: All smooth surfaces can be treated with Surface Activator. Porous surfaces in water loaded applications should be primed. We recommend a preliminary adhesion test on every surface.

Joint dimensions

Min. width for joints: 5 mm

Max. width for joints: 30 mm

Min. depth for joints: 5 mm

Recommendation sealing jobs: joint width = 2 x joint depth.

Application method

Application method: With manual- or pneumatic caulking gun. Cleaning: Clean with White Spirit or Surface Cleaner immediately after use (before curing).

Finishing: With a soapy solution Finishing Solution before skinning.

Repair: With the same material.

Health- and Safety Recommendations

Take the usual labour hygiene into account. For more information see Material Safety Data Sheet.

Remarks

- BOSS® 234 HYBRID SEALANT 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
- The paint must be sufficiently elastic to allow application on a elastic sealant
- The drying time of alkyd resin-based paints may increase

BOSS® 234 HYBRID SEALANT can not be used as a glazing sealant

- BOSS® 234 HYBRID SEALANT is not suitable for use on natural stone, can cause discoloration
- When applying, make sure not to spill any sealant on the surface of materials. Taping the surface around the joint can prevent this
- A total absence of UV can cause colour change of the sealant
- BOSS® 234 HYBRID SEALANT can discolour under the influence of high UV stress and in dark spaces

Standards and certificates

- BOSS® 234 HYBRID SEALANT Interior meets GEV EMICODE EC1 PLUS: very low emission



BOSS® 234-HYBRID SEALANT

Environmental clauses

Leed regulation:

BOSS® 234 HYBRID SEALANT 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.

Liability

The content of this technical data sheet is the result of tests, monitoring and experience. It is general in nature and does not constitute any liability. It is the responsibility of the user to determine by his own tests whether the product is suitable for the application.

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.

Accumetric Silicones Pvt Ltd

No. 16/1, Corporation Road, Seevaram, Perungudi,
Chennai - 600 096, Tamil Nadu, India.
Customer Support: +91 44 4026 0345 - 60
indiasales@bossproducts.com
www.bossproducts.in