



BOSS® MS40+ HYBRID SEALANT

TECHNICAL DATA

Uncured

| | |
|---------------------------------|-------------------|
| Basis | Hybrid |
| consistency | Thixotropic paste |
| Density** | 1.52 ± 0.03 |
| Curing system | Moisture curing |
| Skin formation* (22° C / 50%RH) | 15 - 20 min |

Cured-Physical

| | |
|---------------------------------|----------------|
| Hardness** | 20 ± 5 |
| Movement capability(%) | ±50% |
| Service Temperature | -20 °C - 80 °C |
| Tensile Strength MPa | 1.5 - 2.0 |
| Elongation at break (DIN 53504) | >400 % |
| UV/OZ. Resistance | Good |

* 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® MS40+ Sealant a one-component adhesive sealant based on the hybrid polymer. It reacts with moisture in the air and gradually forms a kind of high strength of the elastomer.

Properties

- Excellent adhesion on nearly all surfaces, even if slightly moist
- Very good mechanical characteristics
- High elasticity – movement accommodation up to ±50% & good extrudability even at low temperatures
- Ideal for use on sensitive porous or non-porous substrates which are particularly susceptible to plasticizer migration of contamination
- No bubble formation within sealant in high temperature and humidity applications
- Good colour stability, weather and UV resistance

- Ecological advantages – free of isocyanates, solvents, halogens and acids
- Can be painted with water-based systems

Applications

- Bonding applications in industrial, construction and automotive industries
- Strong elastic bonding in vibrating constructions
- Sealing of floor joints
- Connection joints in sheet metal fabrication, sealing of air conditioning systems
- Supplement bonding in car bodies, caravans & containers

Packaging

Colour: white.

Packaging: 600 ml sausage

BOSS[®] MS40+ HYBRID SEALANT

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 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 building substrates, treated wood, PVC, plastics, ... Nature: clean, dry, free of dust and grease. Surface preparation: Porous surfaces in water loaded applications should be primed. All smooth surfaces can be treated with Surface Activator.

The surfaces should be degreased before bonding them together. We recommend a preliminary adhesion test on every surface. BOSS[®] MS40+ has excellent adhesion on most substrates. While producing plastics, releasing agents, processing aids and other protective agents (like protection foil) are often used. These should be removed prior to bonding.

The use of BOSS[®] MS40+ is not recommended in these applications—there is no adhesion on PE, PP, PTFE (Teflon[®]), silicones and bituminous substrates.

Joint dimensions

Min. width for bonding: 2 mm

Min. width for joints: 5 mm

Max. width for bonding: 10 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. Finishing: With a soapy solution Finishing Solution before skinning. Repair: With the same material.

Remarks

- BOSS[®] MS40+ 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 drying time of alkyd resin based paints may increase
- BOSS[®] MS40+ 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[®] MS40+ can not be used as a glazing sealant
- When applying, make sure not to spill any sealant on the surface of materials. Taping the surface around the joint can prevent this

Users please read

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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