

# SABRE BOND SMP50

## HYBRID ADHESIVE SEALANT

### PRODUCT DESCRIPTION

**SABRE BOND SMP50** is a high quality single component joint sealant, with high adhesive strength based on MS Polymer®. It is chemically neutral and fully elastic. For use in low movement joints in construction, automotive, marine and aerospace areas, where a tough, flexible rubber is required.



### CHARACTERISTICS

- ✘ High bond strength on nearly all surfaces
- ✘ Excellent adhesion on porous and non porous substrates
- ✘ High performance mechanical properties
- ✘ Flexible elastic rubber – movement accommodation up to 20%
- ✘ Straightforward application even in adverse conditions
- ✘ No bubble formation within sealant (in high temperature and humidity applications)
- ✘ Primerless adhesion (except where capillary water pressure can occur)
- ✘ Very easy to tool and finish
- ✘ Good extrudability and UV resistance
- ✘ Ecological advantages – free of isocyanates, solvents, halogens and acids
- ✘ Minimal health and safety considerations
- ✘ Can be painted with all water based paints and many other systems
- ✘ Resistance to many chemicals
- ✘ No staining of porous materials such as natural stone, granite, marble, etc

### APPLICATIONS

- ✘ Sealing and bonding in the building industry
- ✘ Structural bonding in vibrating constructions
- ✘ Sealing of trafficated floor joints and low movements wall joints
- ✘ Joints in high rise constructions
- ✘ Connection joints in sheet metal fabrication
- ✘ Supple bonding in car bodies, caravans and containers

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**Sabre-Bond**

## TECHNICAL CHARACTERISTICS

Base	Silane Modified Polymer
Consistency	Stable Paste
Curing System	Moisture Cure
Skin Formation/Tooling Time (*)	<25 min (23°C/50% RH)
Curing Rate (*)	Approx 3mm/24H
Hardness	60 ± 5 Shore A
Change in volume	<2%
Specific Gravity	1.58 g/ml
Maximum Deformation	±20%
Temperature Resistance (fully cured)	-40°C until +90°C
Elasticity Modulus 100%	1.4N/mm <sup>2</sup> (DIN 53504)
Tear Strength	2.5N/mm <sup>2</sup> (DIN 53504)
Elongation at Break	>350%
Shear Strength	>1.8N/mm <sup>2</sup>
Substrate	AlMgSi1
Thickness	2mm
Shear Velocity	10mm/min
Density @ 20 °C	1.4-1.5g /cm <sup>2</sup>

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

## RESISTANCE TO CHEMICAL AGENTS

Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis.

Poor resistance to aromatic solvents, concentrated acids, chlorinated hydrocarbons.

### SUBSTRATES

- ✘ **NATURE:** Clean, dry, free of dust and grease.
- ✘ **PRIMING:** Porous surfaces should be primed with Primer PP. Sabre Surface Activator may be used on non porous surfaces.

We recommend preliminary compatibility tests previous to application

### APPLICATION

- ✘ **METHOD:** Manual or pneumatic caulking gun.
- ✘ **APPLICATION TEMPERATURE:** 10°C until 30°C.
- ✘ **CLEANING:** White Spirit or Surface Cleaner immediately after application and before curing.
- ✘ **TOOLING:** With soapy solution before skin formation.
- ✘ **REPAIR WITH:** SABRE BOND SMP50

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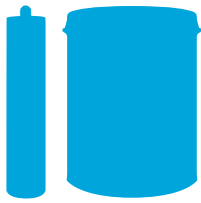
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## SHELF LIFE

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

## PACKAGING & COLOUR



**Available colours:** White • Black • other colours on request

**Packaging size:** Cartridge 290ml • Foil Pack 600ml • Hobbock 20L and Drums

200L on request

## HEALTH AND SAFETY RECOMMENDATIONS

Apply the usual industrial hygiene.

### REMARKS

SABRE BOND SMP50 can be coated with many types of paints and varnishes. Due to the large variety of paints and coatings a compatibility test is strongly recommended. The drying times of allkyd resin based paints may increase.

SABRE BOND SMP50 can be painted immediately after application “wet on wet” with waterbased industrial paints in paint ovens at temperatures of up to 200°C for up to 45 minutes.

SABRE BOND SMP50 can be applied to a wide variety of substrates. Due to the fact that specific substrates such as plastics, polycarbonate, etc, may differ from manufacturer, we recommend preliminary compatibility tests.

This product cannot be used as glazing sealant.

See specific application instruction, available on request

*The technical data contained herein is based on our present knowledge and experience and we cannot be held liable for any errors, inaccuracies, omissions or editorial failings that result from technological changes or research between the date of issue of this document and the date the product is acquired. Before using the product, the user should carry out any necessary tests in order to ensure that the product is suitable for the intended application. Moreover, all users should contact the seller or the manufacturer of the product for additional technical information concerning its use if they think that the information in their possession needs to be clarified in any way, whether for normal use or a specific application of our product. Our guarantee applies within the context of the statutory regulations and provisions in force, current professional standards and in accordance with the stipulations set out in our general sales conditions. The information detailed in the present technical data sheet is given by way of indication and is not exhaustive. The same applies to any information provided verbally by telephone to any prospective or existing customer.*

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