

SabreBond™ SMP50



SabreBond 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 a 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

Technical Characteristics

Base material	Hybrid Polymer
Consistency	Stable Paste
Curing system	Moisture
Through cure rate (mm/24hrs)	3.5
Density (kg/l)	1.58
Elasticity modulus at 100% (N/mm²) ISO 37	1.2
Elongation at break (%) ISO 37	>480
Tensile strength (N/mm²) ISO 37	>2
Max open time (mins)	30
Shear strength (N/mm²) ASTM D1002 - rate - 6mm/min	≥1.5
Shore A hardness ±5	60
Skin over time (mins)	16
Viscosity C&P @ 0.6 s⁻¹ (Pa.s)	1500
Volume alteration (%)	<1
Colour stability UV exposure ASTM G154 (CIELab - ΔE)	<1

(*) 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: SabreBond SMP50

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: • Foil Pack
600ml • Hobbock 20L and
Drums 200L on request



Health & Safety

Apply the usual industrial hygiene.

Safety data sheet available on request.

Remarks

SabreBond 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.

SabreBond 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.

SabreBond 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 instructions, available on request.

Reviewed January 2023
SabreBond_SMP50_TDS_2301

IMPORTANT NOTICE

Sabre Adhesives Limited makes no warranties, express or implied, including, but not limited to, any implied warranty of merchantability or fitness for a particular purpose. User is responsible for determining whether the product is fit for a particular purpose and suitable for user's method of application. Due to the fact that specific substrates, such as: plastics, polycarbonates, etc, may differ from manufacturer to manufacturer we recommend preliminary compatibility tests. Please remember that many factors can affect the use and performance in a particular application. The materials to be bonded with the product, the surface preparation of those materials, the product selected for use, the conditions in which the product is used, and the time and environmental conditions in which the product is expected to perform are among the many factors that can affect the use and performance of a product. Given the variety of factors that can affect the use of our products some of which are uniquely within the user's knowledge and control, it is essential that the user evaluate the product to determine whether it is fit for a particular purpose and suitable for the user's method of application.

LIMITATION OF REMEDIES AND LIABILITY

If the product is proved to be defective, the sole remedy shall be to refund the purchase price or to repair or replace the defective product. Sabre shall not otherwise be liable for loss or damages, whether direct, indirect, special, incidental, or consequential, regardless of the legal theory asserted, including negligence, warranty, or strict liability.

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