

SabreBond™ 055



SabreBond 055 is a high quality single component adhesive/sealant with high stiffness and very high adhesive strength. It is based on MS Polymer, chemically neutral and fully elastic.

Bonding

SabreBond 055 has excellent adhesion on many surfaces. The following metal surfaces have been tested: Steel, AlMgSi1, Brass, ElectroGalvanised Steel, AlCuMg1, Firegalvanised Steel, Steel ST1403. Excellent adhesion as well on many plastics: Polystyrene, Polycarbonate (MarcolonR, LexanR), PVC, ABS, Polyamide, PMMA, GRP, Fibre Reinforced Epoxy and Polyester. Please remove protective films from plastic surfaces, prior to application of SabreBond 055. No adhesion on: PE, PP and PTFE (Teflon).

Characteristics

- High performance mechanical properties.
- Combines high stiffness with very high bond strength.
- High green strength, quick buildup of end strength, high shear strength after full cure.
- Does not contain isocyanates, silicone, solvent.
- Can be sanded after full cure.
- Flexible elastic rubber - movement accommodation up to 20%.
- No bubble formation within sealant (in high temperature and humidity applications).
- Very easy to tool and finish.
- Colour stability and UV resistance.
- Can be painted wet-on-wet in paint trains with most industrial paints.
- Withstands all climatic conditions.
- Minimal health and safety considerations.

Substrates

Nature

Clean glass and body side frame using Sabre® Surface Activator. Allow 10 minutes to flash off and activate. A 'milky' white residue left on the glass is correct.

Priming

Non-fritted glass needs to be primed with Sabre® Primer (see TDS for Sabre® PG for application). We recommend preliminary compatibility tests previous to application.

Applications

- For use in glass bonding applications in the car, coach, caravan, marine, train, aerospace industries, where a tough and flexible bond is required.
- Structural elastic bonding between metal surfaces, coated surfaces and many plastics (not PE, PP, Teflon).
- Vehicles which pass through paint tunnels.
- Structural bonding in vibrating constructions.
- Backfilling/seaming between glass and body side.

Technical Characteristics

Base Material	MS Polymer
Consistency	Stable Paste
Curing System	Moisture
Through Cure Rate (mm/24hrs)	3
Density (Kg/l)	1.44
Elasticity Modulus at 100% (N/mm²)	1.2
Elongation at Break (%)	>450
Tensile Strength (N/mm²)	3.3
Max Open Time (mins)	15
Shear Strength (N/mm²)	2.5
Shore A Hardness #5	61
Skin Over Time (mins)	7
Viscosity C&P @ 0.6 s⁻¹ (Pa.s)	3700
Volume Alteration (%)	<1
UV Resistance 96 hours ASTM G154 (CIELab - ΔE)	<1

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

Application

Method

Manual or pneumatic caulking gun.

Application Temperature

+5°C until +30°C.

Cleaning

White Spirits or soapy water immediately after application and before skin formation.

Tooling

Soapy solution before skin formation.

Repair With

SabreBond 055. We recommend preliminary compatibility tests previous to application.

Packaging & Colour

Available colours: Black

Packaging size: 600ml foil pack



Shelf Life

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

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.

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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.

New Zealand

+64 6 366 0007
40-42 Cambridge St South
Levin 5510

Australia

+61 2 9098 8244
Level 6, 10 Herb Elliott Ave
Sydney Olympic Park, NSW 2127