

# SabreBond™ SMP62



SabreBond SMP62 is a very high quality, hybrid polymer adhesive with long open time, for bonding and sealing metals, composites, glass, wood, and plastics in recreational vehicle, mass transportation and commercial vehicle applications.

## Benefits

- Long open time for use in hot / humid environments.
- High-performance mechanical properties.
- Combines high-stiffness with high bond strength.
- High green strength and 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.
- Withstands all climatic conditions.
- Minimal health and safety considerations.

## 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).
- Structural bonding in vibrating constructions.
- Backfilling / seaming between glass and body side.

## Technical Characteristics

<b>Base Material</b>	MS Polymer
<b>Consistency</b>	Stable Paste
<b>Curing System</b>	Moisture
<b>Through Cure Rate (mm/24hrs)</b>	3
<b>Density (kg/l)</b>	1.43
<b>Elasticity Modulus at 100% (N/mm<sup>2</sup>)</b> ISO 37	1
<b>Elongation at Break (%)</b> ISO 37	>500
<b>Tensile Strength (N/mm<sup>2</sup>)</b> ISO 37	>2.5
<b>Max Open Time (mins)</b>	60
<b>Shear Strength (N/mm<sup>2</sup>)</b> ASTM D1002 - rate - 6mm/min	>2.5
<b>Shore A Hardness #5</b>	60
<b>Skin Over Time (mins)</b>	34
<b>Viscosity C&amp;P @ 0.6 s<sup>-1</sup> (Pa.s)</b>	1600
<b>Volume Alteration (%)</b>	<1.5
<b>Colour Stability UV Exposure</b> ASTM G154 (CIELab - E)	0.41

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

## Packaging & Shelf Life

**Available colours:** • Black

**Packaging size:** • Foil packs 600ml

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

## Substrates

**Nature:** Clean, dry, free of dust and grease.

**Priming:** We recommend the use of Sabre® Surface Activator on non-porous surfaces. We recommend preliminary compatibility tests prior to application.

## Application

**Method:** Manual or pneumatic applicator.

**Application temperature:** +1°C until +30°C.

**Cleaning:** White Spirit or Sabre® Surface Cleaner immediately after application and before curing.

**Tooling:** Soapy solution before skin formation.

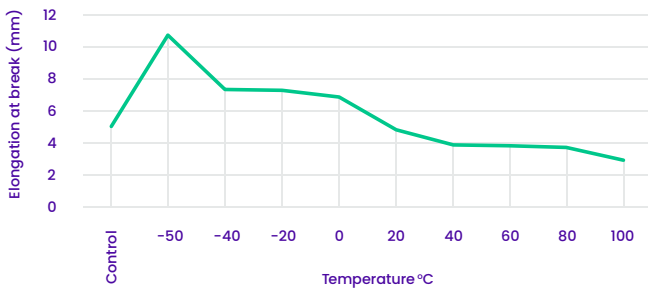
**Repair with:** SabreBond SMP62.

## Resistance to chemical agents

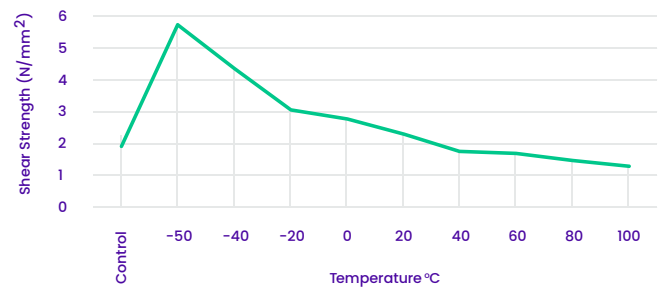
Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrogen's.

## Elongation at break (ASTM D1002)

### 25mm overlapped joint



### Base temperature resistance (ASTM D1002)



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