

SabreBond™ SMP65



SabreBond SMP65 is a very high performance hybrid polymer adhesive engineered for commercial vehicle, recreational vehicle, and mass transportation applications. It has a high bond strength, fast strength build up and exceptional stability in harsh climatic conditions.

Benefits

- High performance mechanical properties.
- High bond strength.
- Quick build-up of end strength.
- High shear strength after full cure.
- Does not contain isocyanates, silicone or solvents.
- Can be sanded after full cure.
- Flexible elastic rubber, movement accommodation up to 20%.
- Suited for application in warm, humid climates.
- No bubble formation within sealant.
- Very easy to tool and finish.
- Colour stable and UV resistant.
- Can be painted wet-on-wet in paint trains with most industrial paints.
- Withstands all climatic conditions.
- Minimal health and safety considerations.
- Easy to extrude.

Applications

- Structural elastic bonding between metal, composite, painted surfaces, and many plastics (not PE, PP or Teflon).
- Structural bonding applications in the automotive, bus, caravan, marine, train and aerospace industries.
- Bondings which pass through paint tunnels.
- Structural bonding in vibrating constructions.
- Connection joints in sheet metal fabrication.

Technical Characteristics

Base Material	MS Polymer
Consistency	Stable Paste
Curing System	Moisture
Through Cure Rate (mm/24hrs)	4
Density (kg/l)	1.46
Elasticity Modulus at 100% (N/mm²) ISO 37	>1
Elongation at Break (%) ISO 37	>300
Tensile Strength (N/mm²) ISO 37	4
Max Open Time (mins)	20
Shear Strength (N/mm²) ASTM D1002 - rate - 6mm/min	>2.5
Shore A Hardness #5	65
Skin Over Time (mins)	10
Viscosity C&P @ 0.6 s⁻¹ (Pa.s)	2700
Volume Alteration (%)	<1
UV Resistance ASTM G154 (CIELab - ΔE)	<1

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

Packaging & Shelf Life

Available colours: • White • Grey

Packaging size: Foil packs 600ml • 200L on request.

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.

Bonding

SabreBond SMP65 has excellent adhesion on many surfaces. The following metal surfaces have been tested: Steel, AlMgSi1, Brass, ElectroGalvanised Steel, AlCuMg1, Fire retardant galvanised 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 SMP65. No adhesion on: PE, PP, and PTFE (Teflon).

Bonding layer

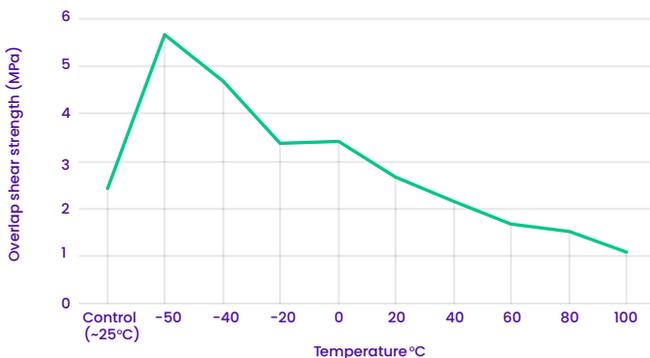
We recommend a bonding layer of at least 2mm.

Resistance to chemical agents

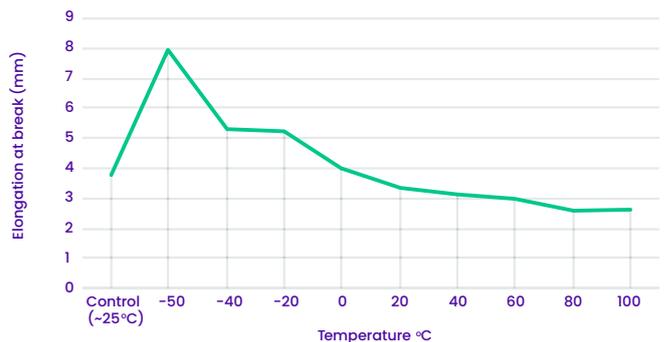
Good resistance to water, aliphatic solvents, mineral oils, grease, diluted inorganic acids and alkalis. Poor resistance to aromatic solvents, concentrated acids and chlorinated hydrogen's.

Elongation at break (ASTM D1002)

25mm overlapped joint



Base temperature resistance (ASTM D1002)



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