TECHNICAL DATA SHEET

SabreBond™ SMP40

SabreBond SMP40 is an easy-tooling, extra flexible MS Polymer adhesive/sealant for primerless bonding and sealing of metal, alloy, glass, and many plastics. It is ideal for use in low-movement joints in transportation, construction, automotive, and industrial applications. SabreBond SMP40 has high elasticity and flexibility, ensuring longevity throughout service life. It is relatively low modulus, making it suitable for both bonding and sealing applications, with excellent tooling properties.

Characteristics

- Flexible & strong – an ideal alternative to rivets, bolts & welding
- USDA – approved for plant food use
- No solvents, isocyanates, biocides, silicone or fire risk
- Easy tooling, non-slump, smooth skinning, non-melt and colour stable
- Paintable and no priming required on most substrates (see notes on page 2)
- British standard colours available on indent order
- High dielectric strength – won't promote corrosion between dissimilar metals when full adhesive spread is used

Application

JOINT APPLICATION

Substrates to be clean of oil, dirt, contaminants and old sealant. Mask joint edges. Cut nozzle end at 45° angle to the desired opening. Cut end from cylinder bung leaving the thread. Screw nozzle to bung thread. Place in cylinder applicator gun. Insert nozzle into joint, squeeze trigger and push gun in a forward direction - never pull backwards as air may be trapped in joint preventing a good seal. Remove masking before skinning.

PRIMING

Sabre Surface Activator may be used on non porous surfaces. Porous surfaces should be primed with Sabre Primer PX. We recommend preliminary compatibility tests previous to application.

PAINTING

SabreBond SMP40 is suitable for most paints - test for compatibility. For best paint bond, apply promptly after sealant cure.

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 (*)	2.85mm (25°C/50% RH)
Hardness Shore A	45 – 50
Flexible Class A	(+/-50%) Joint Movement
Service Temperature	-40°C until +140°C (Up to 150°C for short periods)
Low Temperature	Flexibility properties retained to -60°C
Lap Shear	1.9MPa (N/sq.mm)
Elongation at break	+ 275%
Tensile Strength	>1.5N/mm²
UV Rating	After 2000 hours UV-A no change in appearance or physical properties (ASTM G26)

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

Packaging & Shelf Life

Available colours: White • Black • Grey • Clear
Packaging size: Cartridge 300m

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

Important

- Not for aquarium use
- Not for prolonged exposure to highly alkaline materials, e.g. petrol, lye.
- Not for high traffic area use – use SabreBond SMP60 for floor joints

Precautions

SabreBond SMP40 is non-hazardous but can cause irritation. Use with adequate ventilation. Vapour inhalation during cure may cause slight eye and/or throat irritation. Enclosed space use requires a nose / mouth organic vapour respirator. Wear PVC or latex gloves to prevent skin drying / irritation or contamination. Wear safety glasses if eyes may be contacted. Use reasonable care, as with all chemicals.

Notes

SabreBond SMP40 may be overpainted with most types of lacquer used in industrial applications, however, due to the large number of paints and varnishes available we strongly advise a compatibility test before application. The drying time of alkyd resin based paints may increase. As SabreBond SMP40 can be applied to a wide variety of substrates such as: plastics, polycarbonates etc. which may differ from manufacturer to manufacturer we recommend preliminary compatibility tests. The directives contained in this document are the result of our experiments and of our experience and have been submitted in good faith. Because of the diversity of the materials and substrates and the great number of possible applications which are outside of our control, we cannot accept any responsibility for the results obtained. In every case it is recommended to carry out preliminary experiments.

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