

SabreBond[™] SMP1043

SabreBond SMP1043 is a two-component adhesive and sealant based on a silane-modified polymer. Curing is induced by mixing the components at room temperature. The product has good stability and is free of solvents, isocyanates, silicones and PVC. This product has good adhesion to many substrates and a very good electrical insulation effect.

Application

SabreBond SMP1043 is used for elastic bonding and sealing of metals and plastics.



Technical Characteristics (at 20–25°C, unless otherwise stated)

Components	SabreBond SMP1043 (Resin)	SabreBond SMP1043 (Hardener)
Color	White	Beige
Appearance	Paste	Paste
Viscosity (mPa s); Brookfield DV-II+ Pro	25000	25000
Density (g/cm ³)	1.30 ± 0.05	1.30 ± 0.05

Components	SabreBond SMP1043 (Resin)	SabreBond SMP1043 (Hardener)
<i>After mixing</i>		
Pot-life (min)	15 – 20	
Full-cure (days)	7	
<i>After cure</i>		
Tensile strength (MPa)	1.8	
Elongation at break (%)	200	
Tensile strength (Alu/Alu) (MPa)	1.8	
50% strength (at 60°C) (min)	25 – 30	
100% strength (at 60°C) (min)	180	
50% strength (at 80°C) (min)	10 – 15	
100% strength (at 80°C) (min)	120	
Hardness (Shore A)	43 ± 5	
Application temperature (°C)	5 – 40	
Service temperature (°C)	–40 – 80	

Preparation and Use

Comment

The components have to be stored in tightly sealed containers. Ensure adequate ventilation during use. Avoid direct skin contact with the individual components or the non-cured mixture. Wear protective gloves and glasses. The surface to be potted or glued should be dry, free of grease and dust and should have no other contamination. Coatings (e.g. paints) on metal surfaces or any release agent on plastic surfaces should be removed. Formation of condensation on the substrate should be avoided. To do this, heat the substrates to room temperature. A low temperature increases the viscosity of the product.

Use

The product can be processed manually or by mechanical or pneumatic dosing. The product can be cured at room temperature. By heating, curing can be accelerated.

Cleaning

Non-cured adhesive or the individual components can be removed with solvent. Pay attention to the compatibility of the substrate with the solvent. Cured adhesive can only be removed mechanically.

Storage

The product must be stored at temperatures between 10 and 30°C. Direct sunlight, heat, frost or moisture must be avoided. The material can be stored in the original sealed containers for 9 months.

Packaging

400ml cartridge or on request.

Safety

In any case, observe the valid safety data sheet before using the product.

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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.

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