

SabreBond™ HS450

SabreBond HS450 is a high performance permanent bonding & sealing tape incorporating an aggressive acrylic adhesive developed to exhibit excellent adhesion on metals and a wide variety of substrates. Designed to replace spot welds, rivets, liquid adhesives & other permanent fasteners. Ideal for stiffener to panel attachment, signage, refrigeration display units & automotive trim attachment.

Benefits

- Excellent initial tack
- Excellent weather & U.V resistance
- Permanent high bond (PHB)
- Bonds to high energy substrates including metal, glass & plastics
- Long life application

Applicable Industries

- Building
- Sign Writing
- Plastic
- Automotive
- Manufacturing & Engineering industries

Conditions of Use

For best results apply self adhesive tapes between 15°C and 25°C in a dry environment. Application surfaces must be dry and free from dust and particles. Do not apply on surfaces treated or contaminated by anti-adhesives. Do not use paint containing additives which could reduce the adhesive properties. Avoid contact with surfaces containing plasticizers or other chemical agents not compatible with the tape. In cases of rough or irregular surfaces, it is better to use a tape with a higher quantity of adhesive. Care must be taken with reference to removability without residue and working conditions of the self adhesive tape.

Tape Storage

Ideally store tape between 15°C and 25°C with a maximum relative humidity of 65%. Always store away from heat sources, avoiding exposure to light and if possible keep in the original packaging. When temperatures are lower than 15°C it is highly recommended to recondition the adhesive tape to normal temperatures (15°C to 25°C) before use.

Tape Shelf Life

Self-adhesive tapes technical features are generally not permanent but remain at their best for approximately 12 months, if stored according to suggested conditions and by avoiding extreme environmental conditions such as quick and sudden temperature changes, exposure to UV light and high levels of humidity.

Product Features

Initial adhesion	● ○ ○
Final adhesion	● ● ●
Dimensional stability	● ○ ○
Adhesion on even surfaces	● ● ●
Adhesion on rough surfaces	● ○ ○
Ageing resistance	● ● ●
Weathering resistance	● ● ●
Chemical resistance	● ● ●
Resistance to plasticizers	● ● ○

Applicability On

Foam	● ○ ○
Rubber	● ○ ○
Fabric	○ ○ ○
Glass/Ceramics	● ● ●
Finished Timber	● ● ○
High energy plastics: PVC, PC, ABS	● ● ●
Low energy plastics: PE, PP	● ○ ○
Metal	● ● ●
Paper/Cardboard	● ○ ○

● ● ● Very suitable ● ● ○ Suitable ● ○ ○ Suitable with reductions ○ ○ ○ Not suitable

Temperature Range (°C)	-40 to +120
Static Shear Strength	> 1000 Hours
Adhesion to Stainless Steel (N/25mm)	60 After 20 Minutes 70 After 80 Hours
Thickness (mm)	1.1 (1100 Microns)
Standard Sizes Available	12mm x 33m • 18mm x 33m • 24mm x 33m Custom sizes available on request

The figures above are based off average results from multiple tests, results may vary + or - 5%.

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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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