

SabreBond™ PU2002

SabreBond PU2002 is a solvent free, two-component polyurethane adhesive developed primarily for structural bonding of insulated sandwich panels, such as truck panels and door panels.



Advantages

- High long term panel strength and impact resistance
- Excellent adhesion to a wide range of substrates
- Increased long-term moisture and humidity tolerance
- Contains no solvents and is non flammable
- A wide range of working times available
- Excellent resistance to temperature extremes
- Good chemical resistance

Designed for:

- Production of sandwich panels and automotive components
- Refrigerated truck panels
- Insulated door panels
- Caravan panels
- Wall panels
- Composite materials
- Clean room panels

Technical Data (at 23°C, if not otherwise stated)

Components	SabreBond PU2002 (Resin)	SabreBond PU H8001 (Hardener)
Colour	White	Brown
Appearance	Liquid	Liquid
Density (g/cm ³)	1.60 ± 0.05	1.22 ± 0.05
Viscosity (mPa·s) - Brookfield DV-C	20'000 ± 2500	250 ± 100

Mixed Adhesive	SabreBond PU2002 (Resin)	SabreBond PU H8001 (Hardener)
Mixing ratio (by volume)	4	1
Mixing ratio (by weight)	5	1
Color	Yellowish	
Appearance	Liquid	
Pot life (min)	Various options available. Details are available on request.	
Consumption (g/m ²)	200 – 400 (depending on substrate)	
Initial Strength (h)	Various options available. Details are available on request.	
Full cure (days)	7	
Lap-Shear Strength (MPa)	> 14 (Steel/Steel)	
Hardness (Shore D)	55 – 60	

Preparation and Use

Protect from moisture

Moisture has a negative effect on resin and hardener. Therefore, both components must be protected from moisture. Keep the containers well closed and store them in a dry place.

Directions for use

Before use, the resin component should be stirred well. Then the two components (resin and hardener) are dosed in the right mixing ratio and homogeneously mixed. Application by hand is possible. The best way to use it is with an automatic dosing machine and static mixers. It is recommended to mechanically fix or press the bonded parts until the adhesive is cured. Our technical service team is available for further questions.

Cleaning

Non-cured adhesive or the individual components can be removed with solvent. Pay attention to the tolerability 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 12 months.

Packaging

Resin: PU2002 – 20L or 200L drum

Hardener: PU H8001 – 20L pail

Other sizes and open times available on request.

Safety

In any case, consult 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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