

LOCTITE® HB S159 PURBOND

February 2025

This Technical Data Sheet is only applicable in accordance with the Regulatory Annex for LOCTITE® HB S159 PURBOND and the Application Instructions for face bonding or finger jointing for the LOCTITE® HB S (ECO) PURBOND-line, respectively.

Product description

LOCTITE® HB S159 PURBOND provides the following product characteristics:

Technology	Polyurethane
Product type	Wood adhesive
Application	Engineered Wood
Components	One-component
Basis	Isocyanate prepolymer
Condition	Solvent-free, formaldehyde-free
Appearance	Beige, liquid, (after curing: wood tone, solid)
Cure	Air humidity and moisture in the wood

Application areas

Manufacturing of Engineered Wood Products

Product properties

- Strong, non-brittle adhesive film
- Resistant to weak alkalis, acids and solvents
- Good flow properties
- Fluorescent
- Approved to various certificates and registrations, see Regulatory Annex

Technical data

LOCTITE® HB S159 PURBOND

Solid content, %

free from fibers and abrasive fillers 100

Viscosity, Brookfield - 20 °C , mPa.s 18000 to 32000

Spindle 6, speed 20 rpm,
- measured between 16 to 36 hours after
production

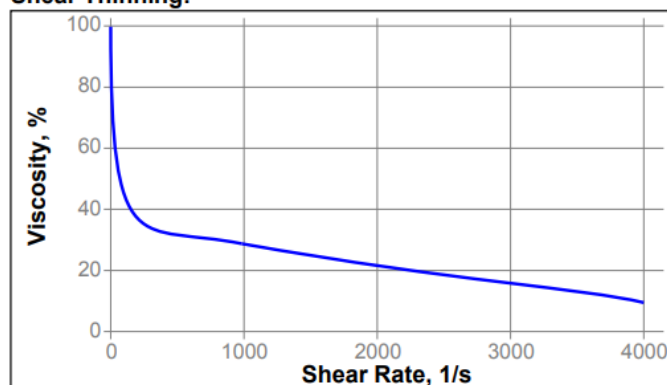
Typical properties

Density, g/cm³ 1.16

Slight foaming of the adhesive during hardening is caused by the curing reaction and is normal.

The adhesive shows shear thinning behaviour. Please see an exemplary viscosity – shear rate – relationship in the graph below.

Shear Thinning:



Directions for use

Preliminary statement

Prior to use it is necessary to read the **Safety Data Sheet** for information about precautionary measures and safety recommendations. Also, for chemical products exempt from compulsory labeling, the relevant precautions should always be observed. Please also refer to the local safety instructions and contact Henkel for analytical support.

Protection and cleaning

Safety precautions

The use of protective gloves is highly recommended. Best practice makes gloves and safety glasses mandatory when handling the adhesive or any chemicals associated with the manufacturing process.

Cleaning

Prior to bringing a plant into initial operation, Henkel recommends the use of release agents to prevent adhesive adhering to equipment and tools, e.g. LOCTITE RELEASE AGENT PURBOND. Henkel can make recommendations upon request, but all release agents should be appropriate for the adhesive and materials to which they are applied.

Storage

Store in the original tightly closed packaging in a cool, dry place.

Classification

Please refer to the corresponding **Safety Data Sheet** for details on:

Hazards identification

Transport information

Regulatory information

Disclaimer

The information provided in this Technical data sheet (TDS) including the recommendations for use and application of the product are based on our knowledge and experience of the product as at the date of this TDS. The product can have a variety of different applications as well as differing application and working conditions in your environment that are beyond our control. Henkel is, therefore, not liable for the suitability of our product for the production processes and conditions in respect of which you use them, as well as the intended applications and results. We strongly recommend that you carry out your own prior trials to confirm such suitability of our product. Any liability in respect of the information in the Technical data sheet or any other written or oral recommendation(s) regarding the concerned product is excluded, except if otherwise explicitly agreed and except in relation to death or personal injury caused by our negligence and any liability under any applicable mandatory product liability law.

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