

LOCTITE® UR 8225S

October 2025

Product description

LOCTITE® UR 8225S provides the following product characteristics:

Technology	Polyurethane
Product type	One component liquid
Application	Woodworking, laminating
Appearance	Brown to light tan
Cure	Moisture cure

Application areas

LOCTITE® UR 8225S is a one-component moisture cure polyurethane adhesive. The product cures through reaction with moisture to form a tough, strong, and thermoset polymer. LOCTITE® UR 8225S can be used for lamination of sandwich panel elements of wood, lauan, fiberboard, particleboard, plywood, FRP, EPS foam, PU foam, or metals. This product is suitable for fire doors and is complaint with UL 10B and 10C.

Product specification

The technical data contained herein are intended as reference only and are not considered specifications for the product. Product specifications are located on the Certificate of Analysis or please contact Henkel representative.

Technical data

Typical properties of uncured material

Density, lbs/gal	9.2
Solids, %	100
Viscosity , cps @ 77°F	7000 - 10000
Consistency	Viscous liquid

Typical curing performance

Curing with ambient moisture	
Open time, @ 23°C/50% R.H., minutes	8 - 12
Set time, @ 23°C/50% R.H., minutes	20 - 30
Curing with heated platen	
Set time, @ 275°F, minutes	2

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.

Application directions

Due to its moisture curing nature, at least one substrate needs to be porous, or perforation of at least one of the substrates is needed. Although 38 dyne or higher of the substrate surface energy level does not guarantee structural bonding, any substrates with surface energy level below 38 will almost surely result in unsatisfactory structural bonding. Aluminum or other metals must be conversion coated or primed for best adhesion.

1. For high strength structural bonds, remove surface contaminants such as oils, grease, dust, mold release agents and all other surface contaminants.
2. Use gloves to minimize skin contact. DO NOT use solvents for cleaning hands from adhesive contact. Water will additionally cure adhesion on the skin.
3. LOCTITE® UR 8225S can be applied through bead extrusion or manual troweling.
4. Deposition rate can vary from 10 - 20 gsf, depending on substrate porosity. For maximum bond strength apply adhesive evenly to surfaces to be joined. For fire door constructions, deposition rates should be 12 gsf or less.
5. Typical water misting rate is 10 - 15% of the coating weight but can be adjusted beyond this range or excluded to compensate for extreme weather conditions. Water should be evenly distributed without droplets.
6. Join the adhesive coated surfaces and allow to set. Intimate contact pressure is necessary during the setting time. Contact pressure with vacuum press of 6" of mercury or greater is recommended.

Curing

Curing of LOCTITE® UR 8225S is accomplished through reaction with moisture. The moisture can be provided by the porous substrate, externally with a fine, uniform mist, through absorption from the atmosphere, or a combination of all three. If water misting is needed, please follow the directions for use above. A very damp or wet, porous substrate might exclude the need for the addition of external moisture. Cure is accelerated by high temperature. A heated platen can be used in this case. The set time will dependent on the temperature of the glue line.

Cleaning

Propylene carbonate, dibasic esters, or some organic solvents can be used to clean uncured material from equipment. Cured material can only be removed mechanically.

Storage

Store adhesive in dry area at between 60°F to 80°F.

Storage below 60°F or greater than 85°F can adversely affect product properties.

Once opened, the adhesive should be used immediately.

Shelf life

Shelf-life (in unopened original packaging), months 5

Refer to expiry date on original packaging.

Classification

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

Hazards identification

Transport information

Regulatory information

Disclaimer

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Reference 1