

The Henkel logo, consisting of the word "Henkel" in a bold, sans-serif font, enclosed within an oval border.

# Macroplast® UR-8331

## TYPE OF ADHESIVE:

Macroplast® UR-8331 is a single component, solvent free, moisture curable, liquid polyurethane adhesive. It cures with water to form a tough, strong, and thermoset polymer. UR-8331 provides excellent adhesion to a broad range of substrates.

## FIELD OF APPLICATION:

Macroplast® UR-8331 can be used for lamination of sandwich panel elements of wood, lauan, fiberboard, particleboard, plywood, FRP, EPS foam, PU foam, and primed metals. UR-8331 shows excellent adhesion to some difficult-to-bond PVC and ABS substrates, and is a good candidate to replace solvent based adhesives for panel lamination.

Users should fully qualify the product before commercial production.

## BENEFITS:

Macroplast® UR-8331 is 100% solid and solvent-free. It does not require heat for application. It provides excellent bonding strength to many substrates, especially difficult-to-bond PVC substrates, along with excellent resistance to chemicals, water, weather, and environmental changes.

## TYPICAL TECHNICAL DATA:

|                  |                    |
|------------------|--------------------|
| Color            | Light Tan to Brown |
| Viscosity @ 77F  | ~12,000 cps        |
| Density @ 77F    | 9.0lbs/gallon      |
| Solids           | 100%               |
| Odor             | Odorless           |
| Curing mechanism | Curing with Water  |
| Open Time @ 75F  | ~45 - 60 min       |
| Press time       | 3 hours            |

## APPLICATION:

Substrate Surface must be free of oil, grease, lubricants, dust, dirt, and any other surface contaminants. Aluminum or other metals must be conversion coated or primed for best adhesion.

Macroplast® UR-8331 can be applied with a bead extruder, a roll coater, or manually. Deposition rate can vary from 10 to 20 g/sft, depending on substrate porosity. Typical water fog rate is about 10% of the coating weight or about 1 gram per square foot. Water should be evenly distributed without droplets. Press is

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needed during the moisture curing of the adhesive. Intimate contact pressure between sandwich panel elements is necessary during the setting time period. Contact pressure with a vacuum press of 6" of mercury or greater is recommended.

**HANDLING:**

Please read MSDS before handling/using this product.

**CLEANING:**

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

**PRECAUTIONS:**

**Please refer to the Material Safety Data Sheet for further safety information.**

**STORAGE CONDITIONS:**

Store in a dry area at 60-85F. Use the product first in first out.

Shelf Life: The shelf life of original, unopened packages is 90 days from date of shipment. Once opened, the material has to be used immediately.

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