

Technical Data Sheet Ultrabond Sealant 721

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Product Description

Hernon® Ultrabond Sealant 721 is a UV curable adhesive that can be used to seal a variety of plastics when exposed to UV light. The sealant offers a water tight seal with excellent environmental resistance. Prevents material escaping through a crimped seal. With Ultrabond Sealant 721 a low powered UV lamp (Blacklight), can be used to inspect for the presence of adhesive on the substrates.

Product Benefits

- UV fluorescence for in-process inspection
- Excellent Water Resistance
- Good adhesion to a variety of plastics
- 100% solid system (no solvents)
- Good gap filling properties
- No shrinkage due to solvent evaporation
- Rapid UV cure and self leveling

Typical Properties (Uncured)

Property	Value
Chemical Type	Epoxy Acrylate
Appearance	Clear liquid
Specific Gravity @ 25°C	1.06
Viscosity @ 25°C, cP	700 to 1000
Flash Point	See MSDS

Typical Curing Performance

Ultrabond Sealant 721 will cure rapidly at room temperature when exposed to high intensity ultraviolet light (365 nm).

Fixture and Tack Free Time

100mW/cm² at 365 nm

Property	Value
Fixture time, glass, seconds	≤ 5
Cure time, seconds	≤ 5

Directions for Use

Apply a small amount of material around the areas to be sealed. Apply enough material to fill the voids. Cure the material with a high intensity UV lamp for 3 – 5 seconds at 365 nm.

Typical Cured Properties

Property	Value
Shear strength, Glass / Glass	≥ 200 psi
Shear strength, Polycarbonate Blocks	≥ 200 psi

Factors Affecting UV Curing

- All UV sources degrade with use. Check output with a radiometer.
- Thicker films require longer cures.
- Light intensity decreases as distance from UV source increases.
- Some clear plastics may contain UV inhibitors.

Precautions When Using UV Lamps

- Never look directly at UV source.
- Wear protective UV goggles
- Use in a well-ventilated area. Some UV sources generate ozone. Provide shielding around high intensity UV sources.
- High intensity UV sources generate heat. Take appropriate precautions.

Storage

Ultrabond Sealant 721 should be stored in a cool, dry location in unopened containers at a temperature between 46°F to 82°F (8°C to 28°C) unless otherwise labeled. Optimal storage is at the lower half of this temperature range. To prevent contamination of unused material, do not return any material to its original container.

Dispensing Equipment

Hernon® offers a Total Solution for your adhesives and sealants including precision dispensing and curing equipment. Contact **Hernon® Sales** for additional information.

General Information

This product is not recommended for use in pure oxygen and/or oxygen rich systems and should not be selected as a sealant for chlorine or other strong oxidizing materials.

For safe handling information on this product, consult the Material Safety Data Sheet (MSDS).

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