

Technical Data Sheet Polycure 744

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Page 1 of 1

Product Description

Hernon[®] Polycure 744 is a single component, 100% solid system formulated for use on printed circuit boards.

This coating can be cured in seconds by high intensity UV light. Low heat (10 minutes at 250°F) can be used for curing the shaded area. The component may be removed for repair using conventional repair methods of abrasion or localized heat. The repaired part may be re-coated off-line using an inexpensive UV light.

Product Benefits

- Easy to use.
- Cost effective.
- Single component, no mixing.
- 100% solid system (no solvents).
- Short cure cycles.
- Dual curing mechanism for shaded area.

Typical Properties (Uncured)

Property	Value
Appearance	Amber liquid
Viscosity @ 25°C, cP	80 to 100
Specific gravity	1.10
Flash point	See MSDS

Typical Properties (Cured)

Property	Value
Coefficient of thermal expansion, ASTM D696 (K ⁻¹)	0.1
Hardness, Shore D	80
Maximum Gap Fill, in.	0.003
Temperature range, °F	-65 to 300

Typical Curing Performance

Cure Characteristics

The following factors can affect cure rates.

- Dark surfaces lengthen cure time.
- Full range (UV-A, B, & C) lamps provide faster cures than filtered sources.
- 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.

Fixture Time

Fixture time is defined as the time to develop a shear strength of 0.1 N/mm².

Light Intensity	Fixture Time, secs.
High	5
Low	15

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).

Ultraviolet Lamp Precautions

- Never look directly at UV source.
- Wear protective goggles.
- Do NOT expose bare skin to high intensity UV light wear protective clothing.
- Use in a well-ventilated area. Some UV sources generated ozone.
- Provide shielding around high intensity UV sources
- High intensity UV sources generate heat. Take appropriate precautions.

Storage

Polycure 744 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 complete line of semi and fully automated dispensing and curing equipment. Contact **Hernon[®] Sales** for additional information.

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