

HI-POLY UV747 UV-Curable Adhesive

Product Information Sheet

For reference only, not for specification use

DESCRIPTION:

An one-part UV-curable epoxy adhesive for rapid & controllable curing with UV-light (long wave UV-A).

USES:

Good bonding performance to metal, plastics, ceramics and glasses. It is able to work as bonding agent or protective coating.

ADVANTAGES:

- Single-part, no mixing needed
- Short curing time
- Safer, UV-A long wave
- High transparency
- Good bonding to metals & plastics
- Low shrinkage
- Odorless
- Chemical resistant

PACKAGING:

The HI-POLY UV747 is tightly sealed. Avoid exposure to moisture and ultra-violet light before use.

SURFACE PREPARATION:

In general, the surface to be resurfaced or bonded must be clean, sound, dry and above 10°C to assure an optimum bonding. All surface contaminants must first be thoroughly removed by chemical and/or mechanical means.

GENERAL PRODUCT DATA	Properties	Test Method
Color:	Transparent	Visual
Solid Content (%)	100	ASTM D 115
Flash Point (°C)	>100	ASTM D 3278
Specific Gravity @25 °C	1.10	ASTM D 792
Viscosity @25°C, Brookfield RVT Spindle 2, Speed 10	2,800 cps	ASTM D 2393
Shelf Life @25°C (months) - min. from date of shipment	4	

* All measurements taken @25 °C unless otherwise noted.

TYPICAL CURED PHYSICAL PROPERTIES	Properties	Test Method
Color	Transparent	Visual
Specific Gravity	1.1	ASTM D 792
Hardness, Shore D	80	ASTM D 2240

* All measurements taken @25 °C unless otherwise noted.

For Industrial Use Only

APPLICATION:

1. By dispenser, dispensing system. For bonding, one of the substrate must be transparent to UV light.
2. Put the epoxy under UV ray with wavelength of 320-400 nm. Suggested to expose for 30 seconds to 3 minutes with the UV light intensity of 75-200m W/cm². Starting temperature should not be lower than 25°C (Increase in exposure time, UV intensity and temperature will decrease the curing time.)
3. Mix well before use
4. Use only in ventilated area
5. Use fume mask, gloves and specialized goggles for UV light operation
6. Avoid skin contact

Caution: Avoid over-exposure, severe exotherm may occur!!

7. HI-POLY UV747 is very sensitive to UV and moisture. Expose to UV, sunlight or moisture will shorten shelf life

CURING SCHEDULE:

Curing by UV:

UV ray (wavelength of 320-400 nm), intensity of 75-200m W/cm²: 30 seconds to 3 min.

Dark Cure after UV:

After exposure to UV, the epoxy continues to cure to achieve its best properties: 1-4 hours

CLEAN UP:

Tools should be cleaned immediately after use with soap and water. Solvents such as Xylol or paint thinner can also be used. But care should be taken before using any flammable and hazardous solvents.

DISPOSAL:

Dispose in accordance with local regulations. Use licensed hazardous waste company.

Empty containers may contain product residue, including flammable or explosive vapor. Do not cut, puncture or weld on or near container. All label warnings must be observed until the container has been properly disposed of.

Storage:

- ☞ HI-POLY UV747 is heat & moisture sensitive, store in a cool, dry place.
- ☞ Shelf life would be shortened if the container had ever been opened.

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