



1260 Birchwood Drive, Sunnyvale, CA 94089

Telephone (408) 734-4402 Fax (408) 734-4502

www.uvexs.com

501 SERIES

UV Curable Adhesives

DESCRIPTION

An epoxy based series of adhesives for optical applications where good bond strength to glass and metals is required. Single component, solventless photo-polymers formulated in several viscosities for laminating or mounting of optic pieces and mounting assemblies. Cures with low or high intensity UV sources. Cured adhesive has high impact strength, and either remains optically clear or changes color for inspection purposes. Remains slightly flexible to compensate for differences in expansion coefficient. The following products are available:

501A & B	glass to glass	clear
501C & D	glass to metal	green

CURE SCHEDULE

Expose to a UV source generating UV-A wavelength energy. Medium pressure mercury type lamps may also be used. Cure time varies with intensity of UV:

20 mW/cm ² @ 365 nm	45 seconds
200 mW/cm ² @ 365 nm	5 seconds

Measured with a UVEXS PM600 Radiometer, 365 nm probe.

APPLICATION

These adhesives are intended for lamination or thin film only. Apply in a maximum thickness of 20 mils, either on a surface or between two surfaces. Ensure that surfaces are clean and dry prior to application. Uncured adhesive may be cleaned from surfaces using standard cleaning solvents, IPA or acetone.

Avoid contact with skin and eyes as directed on the MSDS. Use with adequate ventilation.

UNCURED PROPERTIES

Base resin:	epoxy blend	
Solids:	100%, no solvents	
Components:	one	
Specific gravity:	1.1	
Color:	501A, 501B	clear
	501C, 501D	green, after cure
Flash point:	>200°F	

Viscosity by product:	
	501A 670 cps
	501B 120 cps
	501C 1900 cps
	501D 110 cps

CURED PROPERTIES

Tensile:	600 (psi, typical)
Elongation:	50% (typical)
Hardness:	65 (shore A, typical)
Refractive index:	1.50 (typical)
Dielectric strength:	>500 V / mil

PACKAGING and STORAGE

The 501 Series adhesives are available in bulk container or dispensing syringes. Store at normal room temperatures (50°F to 80°F) in its original container, away from UV sources. Warranted shelf life is 6 months from date of shipment.