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www.uvexs.com

508 SERIES

UV Curable Adhesives

DESCRIPTION

An exceptional series of high clarity optical adhesives for bonding and filling of glass (fused silica) substrates. The single part formulas cure rapidly when exposed to medium or high intensity UV energy. These formulas contain no solvents. Cures to a durable, weather resistant polymer, which remains water, white clear. Excellent for optical or decorative applications requiring high cosmetic appeal. Adhesion is very good to glass, metals and plastics (particularly polycarbonate). Available in a variety of viscosities as may be required for the application. The following products are available:

508G	medium liquid; long-term non-yellowing
508H	medium liquid; standard formula
508I	heavy liquid; very low shrinkage formula
508HT	thixotropic gel; standard formula
508N	medium liquid; thermo-shock resistant

CURE SCHEDULE

Expose to a medium pressure mercury vapor type lamp operating at a minimum of 100 watts per inch input power.

Recommended minimum intensities: 20 mW/cm² @ 254 nm
100 mW/cm² @ 365 nm

Exposure time: <20 seconds, depends on application thickness

STORAGE AND HANDLING

Shelf life is warranted for a minimum of 6 months from date of shipment when stored in darkness at 50-75°F, in its original container.

Avoid contact with skin and eyes as directed on the MSDS. Use with adequate ventilation. Clean uncured material from work surfaces and dispensing equipment with standard solvents (IPA, MEK or acetone).

UNCURED PROPERTIES

Base resin:	Methacrylic
Solids:	100%, no solvents
Components:	one
Specific gravity:	1.1
Color:	clear, water white
Flash point:	>200°F

Viscosity by product:	
508G	17,000 cps
508H	13,000 cps
508I	20,000 cps
508HT	>150,000 cps
508N	4,800 cps

(Brookfield Model LVF, 20°C)

CURED PROPERTIES

Hardness:	84 (shore D) 62 (shore A), 508N only
Elongation:	9% (break) 45% (break), 508N only
Tensile:	>3200 psi (break) 1800 psi (break) 508N only
Thermal shock:	-50 to 85°C, 100 cycles
Humidity:	50°C / 85% RH, 1000 hr

PACKAGING

508 Series adhesives are available in dispensing syringes and cartridges, or bulk containers. Contact UVEXS for a price list by container type:

Dispensing:	10cc, 30cc, 6oz, 12oz
Bulk:	1 pint, 1 quart, 1 gallon