



1260 Birchwood Drive, Sunnyvale, CA 94089

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

www.uvexs.com

# 552 SERIES

*UV Curable Adhesive*

## DESCRIPTION

A rapid curing adhesive with good adhesion to a variety of plastics, ceramics and glass materials. Single component formulation with a low viscosity for ease of dispensing or potting. A thixotropic version is available for creating thick beads where no flow out is desired. Cures completely with high intensity UV and forms a tough, rigid bond. Resistant to high temperatures.

Excellent as a general industrial adhesive. Has good adhesion to difficult plastics, such as Valox. An evaluation for suitability is recommended where thermal cycling of dissimilar materials may occur.

## CURE SCHEDULE

Expose to a medium pressure mercury vapor type lamp operating at a minimum of 200 watts per inch input power.

Recommended minimum intensities:    25 mW/cm<sup>2</sup> @ 254 nm  
  125 mW/cm<sup>2</sup> @ 365 nm

Exposure time:                 <10 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 the original container, in darkness at 50 - 80°F.

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:                     acrylic

Solids:                         100%, no solvents

Color:                         clear, light straw

Flash Point:                 >200°F

Components:                one

Stringiness:                low, <0.10"

Viscosity:                    -552C                     500 cps  
                                  -552D                     thixotropic gel

Specific gravity:            1.1

## CURED PROPERTIES

Hardness:                    82 (shore D)

Tensile:                     3000 psi

Elongation:                 15%

Refractive Index:           1.50, typical

Thermal:                    Good - 24 hours at 150°C with no discoloration.

Temp range:                -20° to 150°C

## PACKAGING

552 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