



1260 Birchwood Drive, Sunnyvale, CA 94089

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

www.uvexs.com

601 SERIES

UV Curable Potting Sealants

DESCRIPTION

A durable sealing and potting material for assemblies with polycarbonate or ABS housings. The single component formula rapidly cures when exposed to high intensity UV energy, even in thick section potting. The cured polymer has excellent dielectric properties and is virtually non-corrosive. Excellent for electronic and opto-electronic assemblies requiring an environmental seal around electrical leads. Resists a variety of cleaning solvents and temperature cycling conditions. The formula contains no solvents.

Several viscosities are available to suit the needs of the application. Self-leveling versions allow flow out around leads and components, while the gel version is desired to prevent wicking into areas where the material is not appropriate.

CURE SCHEDULE

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

Recommended intensities*:
 25 mW/cm² @ 254 nm
 125 mW/cm² @ 365 nm

Exposure: <15 seconds, depends on application thickness.

* Using UVEXS Model PM 600 radiometer (narrow band width)

STORAGE AND HANDLING

Shelf life is warranted for a minimum of 6 months from date of shipment when stored in darkness at 50-80°F, in its original container. Avoid contact with skin and eyes as directed on the MSDS. Use with adequate ventilation.

Available in bulk containers or dispensing cartridges for pneumatic application:

bulk: quart, 1 gallon, 5 gallon
 cartridge: 30cc, 6 oz, 12 oz

UNCURED PROPERTIES

Base resin: acrylated urethane
 Solids: 100%, no solvents
 Components: one
 Color: clear, light amber
 Flash point: >200°F
 Odor: mild
 Viscosity by product:
 601A 1400 cps
 601B 800 cps
 601R thixotropic gel*

CURED PROPERTIES

Hardness: 75 (shore D)
 Tensile: 3900 psi
 Elongation: 4%
 Storage: Pass, 1500 hours @ 125°F with 90% R.H.
 Temperature: Pass, 100°C for 24 hours
 Ionic contaminants:
 Chloride <50 ppm
 Hydrolysable Cl <0.005%
 pH extractable 5.3
 Dielectric strength: 800 Volts/mil, @ 20 mils