Incure Uni-Seal™ 1822 UV/Visible/LED curable Multi-Substrate Bonder/Gasket/Sealant (Hard)

PRODUCT DESCRIPTION
Incure Uni-Seal™ 1822 UV/Visible/LED curable adhesive is an acid-free, multi-substrate, very low viscosity multi-purpose bond. High in clarity and cures tack-free, it is an excellent choice for applications requiring good bonding strength of up to 5,700 PSI on substrates such as metals, glass, plastics, FR4 materials on a single application. Incure 1822 exhibits enhanced excellent moisture and temperature resistance. It is also an extremely tough material with very high elongation of up to 210%. Very low in linear shrinkage and water absorption, it is ideal in surviving thermal cycling.

UNCURED PROPERTIES

- **Chemical Type**: Urethane Acrylate, 100% Solids, No Solvents
- **Appearance**: Single Component, Clear Translucent
- **Density, g/ml**: 1.05
- **Refractive Index**: N.A. @20°C
- **Flash Point, °C**: > 93
- **Toxicity**: Low (Refer to MSDS)
- **Viscosity, cP (rpm)**: 20 - 200 - 500 Spindle 2

Other viscosities are available upon request. If the viscosity range requested is not our standard offering, this product may be produced with a small lab fee.

Email us at: support@uv-incure.com or your nearest local distributor for more information.

ASTM D2555

RECOMMENDED UV CURE SCHEDULE (FULL CURE)

| Full Cure Exposure Time | Fixture Time between glass slides | Exposure Time(s) | F200™ @3.75” Dist | F500™ @3.0” Dist | S20™ Spot (4-Pole LG) 0.4” Dist | L8000™ LED Spot @0.67” Dist | L4044-405™ LED Flood (4” x 4”)
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UY INTENSITY REFERENCE TABLE

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<tr>
<th>Incure UV Curing Lamp Model</th>
<th>Curing Distance vs UV Intensity</th>
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<tr>
<td>Spot Curing (a mm)</td>
<td>0.5 (12.6)</td>
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<td>S20™ ARC (mL/cm²) / (a mm)</td>
<td>1,400 (3)</td>
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<td>L8000™ LED (mL/cm²) / (a mm)</td>
<td>7,500 (9)</td>
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UV CURING SCHEDULE FOR THIS PRODUCT

- **Wavelength**: 365 nm - 405 nm
- **Total Energy Required**: 500 mL/cm²
- **Minimum Intensity**: 150 mW/cm²
- **UV Intensity**: 400 mL/cm²
- **Curing Time**: 60 mins

SHELFLIFE, STORAGE, USE AND HANDLING OF THIS PRODUCT

SHELF-Life of this unopened product is a minimum of ONE (1) year from date of manufacture. Avoid direct exposure of bottle to visible light at all times. Containers should remain covered when not in use. Product should be stored in a dark cool place of 2°C to 20°C. Transfer of product into other packages void all warranties. Users should ensure all bonding surfaces are free of grease, mold release, or any contaminants, as bonding performance will be compromised. All tests for cured bonds should be carried out at ambient temperature. For safe handling of this product, please read Material Safety Data Sheet (MSDS) prior to use. Organic solvents, such as IPA, may be used to wipe away uncured material from surfaces.

E10 and GAMMA STERILIZATION (Not Applicable for this Product)

All Incure medical products are formulated to subject to standard sterilization methods, such as E10 and Gamma Radiation of 25 to 50 kGrays (cumulative). Enhanced moisture and thermal resistance of this product show excellent adhesion and bonding strength after one cycle of steam auto-clave test. Depending on bond design and structure of the application, users should test specific assemblies after subjecting them to sterilisation. Consult Incure Support Team for assistance, if your devices are subjected to more than one sterilization cycles.

NOTE

The data contained in this document are for information only. We cannot assume responsibility for the results obtained by others over whose methods we have no control. It is the user’s responsibility to determine suitability for the user’s purpose of any production methods mentioned herein. INCURE will not be liable for any indirect, special, incidental or consequential loss or damage arising from this INCURE product, regardless of the legal theory asserted. INCURE recommends that each user adequately test its proposed use and application before repetitive use, using this data as a guide.