

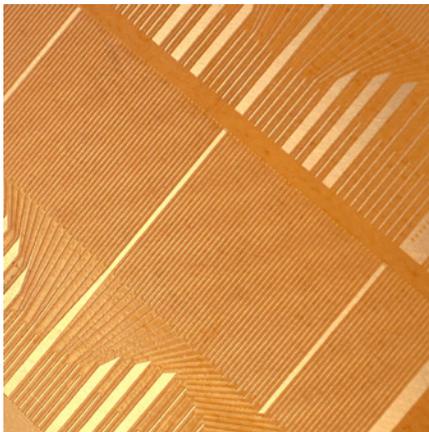
# TechniMask UV-SR2



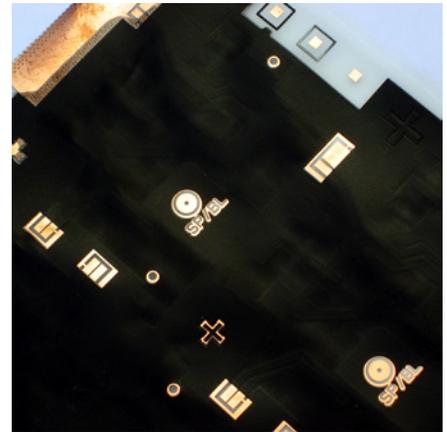


## TechniMask UV-SR2

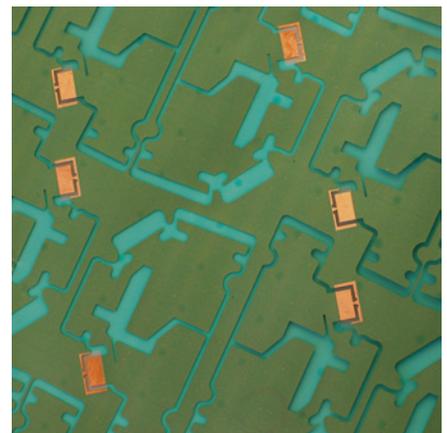
- Passes UL 94 V-0 flammability test, File #E83246
- Excellent cosmetic appearance, encapsulation, and resolution without bleed & skip
- 100% solids system with no VOC content
- Halogen free and RoHS compliant
- Excellent copper, FR4, polyester and surface treated polyimide substrate adhesion
- Superior resistance to all plated surface-finishing processes
- Passes standard industry flexibility test
- Exceeds industry requirements

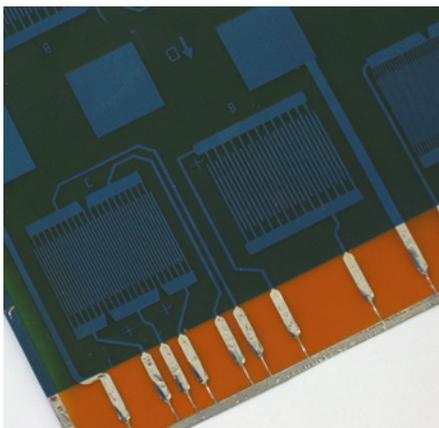
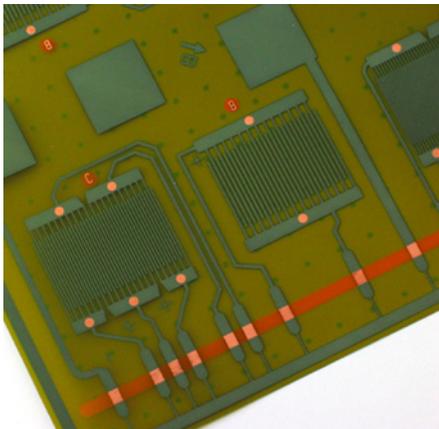
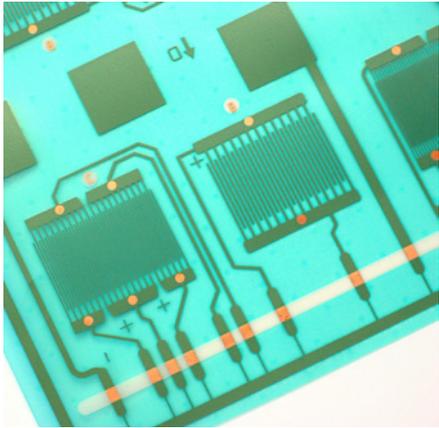
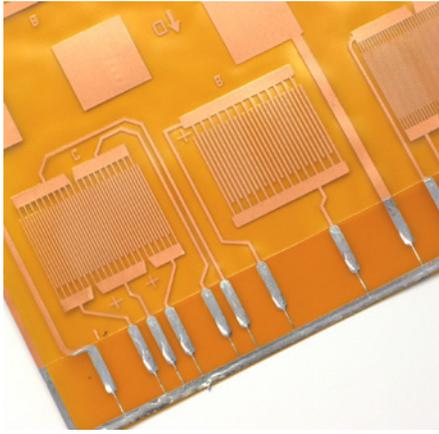


**TechniMask UV-SR2** is a liquid, UV-curable solder mask material, specifically designed for flexible, flex-rigid and rigid circuits. It is halogen free and meets RoHS and UL94 V-0 flammability specifications. Its excellent cosmetic appearance, encapsulation, and resolution without skips and bleed, as well as good flexibility and adhesion to various substrates, makes it a cost effective alternative to photodefinable coverlays or solder masks.



**TechniMask UV-SR2** is supplied as a one-component, screen-printable material and is offered in various colors. TechniMask UV-SR2 offers a long shelf life and very stable physical properties and does not require cold room storage.





## Application

TechniMask UV-SR2 is applied like solder mask, utilizing manual, semi-automatic or automatic screen printing equipment. The product is supplied as a single-component material that has a very long shelf & pot life. TechniMask is 100% solid and contains no VOC. This yields long screen life and eliminates defects from plugged or dried screens. Its flow characteristics are designed to suit a variety of printing conditions. The TechniMask UV-SR2 low viscosity formula provides a wider process window for automatic, semi-continuous, roll-to-roll flex circuits manufacturing.

## Application Data

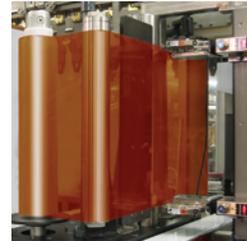
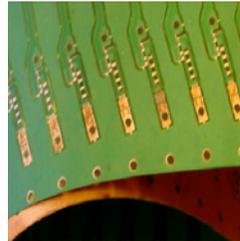
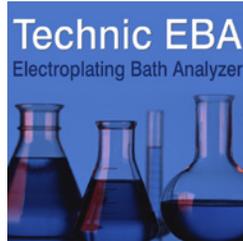
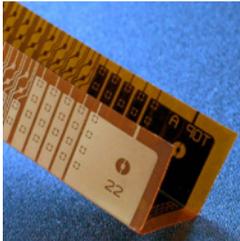
**Solid Contents** ..... 100 wt%, No VOC  
**Viscosity, Rion Viscotester VT-04**..... 80-120 Ps at 25°C  
**Shelf/Pot Life** ..... 18-24 Months

## Industry Requirements

TechniMask UV-SR2 provides exceptional flexibility and adhesion on copper, FR4, polyester and surface treated polyimide. TechniMask UV-SR2 is available as a halogen-free material and meets all global RoHS and EEE requirements. It meets or exceeds IPC SM 840C, Bellcore TR-NWT-000078 and MIL P55110D specifications. It also exceeds performance of competitive products by meeting the most severe industry requirements.

## TechniMask UV-SR2 Properties

<b>Solvent Resistance</b>	No blistering or swelling after 1 hour immersion at ambient conditions in IPA, Acetone, 1.1.1 Trichloroethane, and MEK
<b>Chemical Resistance</b>	No blistering or swelling after 1 hour immersion at ambient conditions in 10%-H <sub>2</sub> SO <sub>4</sub> , 10%-HCl, and 10%-NaOH
<b>Boiling Water Resistance</b>	No blistering or swelling after 1 hour immersion in boiling water
<b>ENIG Resistance</b>	No discoloration or blistering
<b>Boiling water resistance</b>	No blistering or swelling after 1 hour immersion in boiling water
<b>ENIG resistance</b>	No discoloration and blistering
<b>Soldering Resistance</b>	No peeling, blistering or whitening after 3 x 10 second floating on: 1) Molten solder at 500°F with no-clean flux 2) Dipping in molten solder at 500°F with HASL water soluble flux.
<b>Film Hardness</b>	6H or higher
<b>Dielectric Strength</b>	500VDC/0.001"
<b>Adhesion</b>	100% adhesion and wide variety of flexible laminates



- Technic Electroplating Bath Analyzer (EBA) for process control
- Low stress high speed Copper chemistry
- Continuous roll to roll processing equipment
- Metallization of flexible substrates

Technic offers a full range of advanced electroplating products and equipment for flexible circuit manufacturing. Our products are carefully engineered for high throw, high speed and developed to meet the specific physical properties, characteristics and current demands of each industry.



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