



Technical Bulletin

UE-9000 Series

UV Curable Etch Resist

I. Description:

UE-9000 Series UV curable etch resist is a one component UV curable etch resist manufactured by Sanwa Chemical that has the following benefits.

1. Excellent screen printability
2. Completely cured by UV light.
3. Excellent adhesion to copper
4. Good for both alkaline and acid etchants.

II. Operating Parameters

Make-Up Mix and use as received.

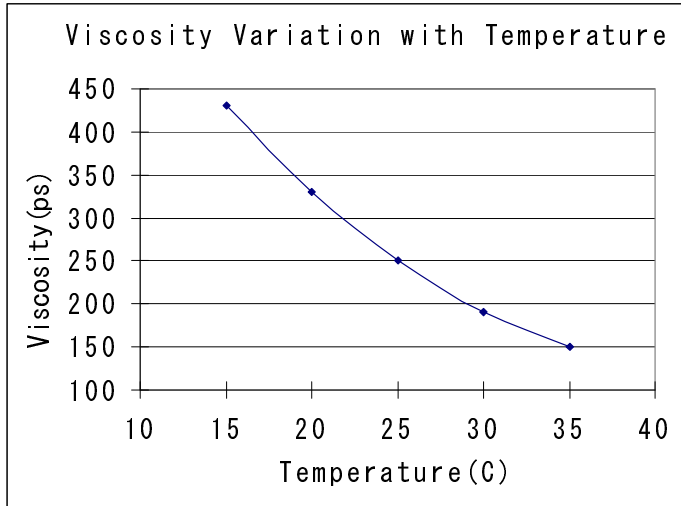
III. Nomenclature (See ordering sheet for more details)

A.	Colors:	Symbol
	Blue	B

IV. Physical Properties

Colors	Blue
Volatile %	0% (no solvents)
Viscosity (RT = 25C or 72F)	250 ps
Thixotropic Index	1.6
Hardness (pencil)-JIS-D-0202	> 2H
Adhesion-JIS-D-0202	100/100
Shelf life	9 months after delivered, when stored at 20C (65F)

Note: Typical property values listed above are not to be construed as a specification.



V. Process Procedures

1. Preparation of the UV curable etch resist

- Mix the solder mask before use.
- UE-9000 thinner can be used, but not to adjust the viscosity. Viscosity will be adjusted by Sanwa Chemical at your request.
- The viscosity of the mask should be 250+/-20 poise at 25C.

2. Application of the etch resist

- Recommended method is screen-printing using a 250 mesh and a squeegee hardness of 80.
- The bare board should be polished and dried thoroughly by either pumice or aluminum oxide scrubbing.

3. Cure

The UV cure should be as follows:

3 high pressure mercury lamps @ 100W/cm
4 – 6 m/min conveyor speed
Total cure energy: 800 – 1200 mJ/cm²

4. Removal

- The etch resist should be removed by using a sodium hydroxide (caustic) solution of 1-3% by weight at 20-40C.

VI. Analysis

Not applicable.

VII. Safety and Storage

Do not store in direct sunlight, high temperature or below freezing. **Store in original uncontaminated container.**

VIII. Waste Treatment

Not applicable.

IX. Miscellaneous

Consult MSDS sheets for additional information.

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