

# SP-9701

## Polar Solvent Resistance Diazo Emulsion



MURAKAMI SCREEN USA INC.

### Characteristics / Application

- Resistant against polar solvents like N-methylpyrrolidone (NMP) and hydrous alcohols.
- Excellent durability not only against NMP, but other solvents also.
- For electric insulation ink containing polar solvents in COF/TAB application.
- Can be used for gasket printing in automobiles.
- Can also be used for PCBs and FPCs.

### Spec.

- Viscosity – approx. 11,000mPa·s (25°C)
- Solids Content – approx. 32%

### Solvent Resistance Rating

\* 24 Hour absorption testing

Solvent Name	Rating	Solvent Name	Rating
Water	◎	Xylene	◎
Kerosene	◎	Isopropyl Alcohol	◎
Terpineol	◎	Butylecellosolve	◎
Citrus Based Chemicals	◎	N-Methyl Pyrrolidone (NMP)	○
Propylene Glycol	◎	Methanol	○

◎・○ : Excellent / Good    △ : Fair    × : Bad

### Instructions

- Degrease and rinse well prior to coating emulsion.
  - MSP Cleanser (degreaser) available for purchase
- Dissolve attached diazo with 90–100 ml of water. Do not use warm / hot water.
- Pour dissolved diazo into the emulsion and mix thoroughly.
- Let mixed emulsions stand for a day to eliminate air bubbles.
  - Or filter emulsion with 250 or higher mesh to prevent fisheyes / air bubbles for immediate use.
- Coat slow to avoid air bubbles. Approx. 104 F with good airflow recommended for drying.

### Precautions

- Store in a cool and UV light safe area after mixing diazo into emulsion. Recommended to use within 1 week.
- Recommended to filter with mesh before pouring back from scoop coater to remove any dust or foreign contaminants

### Exposure Data

\* Guideline only. Please run a exposure test.

Mesh Count	EOM	Exposure Value
150–48 White	15 $\mu$ m	2,100–2,500mJ/cm <sup>2</sup>
250–40 Yellow	10 $\mu$ m	2,600–3,000mJ/cm <sup>2</sup>
Stainless 165–45	10 $\mu$ m	3,900–4,500mJ/cm <sup>3</sup>
Stainless 250–30	10 $\mu$ m	2,800–3,200mJ/cm <sup>2</sup>

### Durability

Simulated 1000 piece run with NMP

