

# Solvent Removable/Acid Etch Resists

CM-34449 and CM-42939 are asphaltum based acid etch resists applied by screen printing and removable by solvent application. Excellent resistance to a wide range of etchants, such as hydrofluoric acid, cupric chloride, ferric chloride, ammonium persulfate, and other etchants used in the subtractive chemical etching process.

## Product Range

Black*	CM-34449
Black*	CM-42939
Reducer	CMN-6
Retarder	CMN-7
Special Resist Retarder	CM-42941

**Note: CM-34449 and CM-42939 are only available in black and are stock products.**

**Please contact your Cudner & O'Connor technical representative for information on other applications.**

\*Heavy Metal compliant.

**ALWAYS TEST INK WITH SUBSTRATE PRIOR TO PRODUCTION!**

## SUBSTRATES:

Glass and metal.

## DRYING:

CM-34449 and CM-42939 dry by solvent evaporation; methods employed are:

- 1) Ambient Air/racking: 30-45 minutes, depending on air movement and general ambient conditions. Drying panels in the vertical or diagonal position accelerates solvent drop-off.
- 2) Forced Air- "Jet" dries in seconds with efficient conveyerized units producing 3000-5000 cfm with temperature settings of 120 - 160° F.
- 3) Convection/ Batch Oven: Moderate temperatures with continual air exchange. If panels are racked in the horizontal position, care must be taken to ensure complete cure of panels positioned on center trays.

## REMOVAL:

After chemical processing, the resist is removed using aromatic, aliphatic, chlorinate and ketone organic solvents. Removal is effected by immersion or spray applications of organic solvents.

## SCREENING:

110 or 260 mesh counts in monofilament polyester fabric. Stainless steel fabric can also be used.

## SQUEEGEE:

60 to 80 durometer.

## STENCILS

Direct Emulsion. Indirect Photo Films and Capillary Film.

## MODIFIERS:

**Reducer:** CMN-6 is recommended and should be used in moderation (2-5%).

**Retarder:** During hot and humid conditions CMN-7 retarder is recommended. CM-42939 can be retarded with CM-42941.

Reducer and retarder additions should be measured by weight.



QT-CM Rev C

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