

FOTECOAT 1771

Diazo Emulsion

1. DESCRIPTION

- Hard and fast screen emulsion with separate diazo powder sensitizer for most solvent based inks
- Blue color after exposure with high contrast
- Ideal for humid and warm climates
- No warning on the label

2. APPLICATION ADVANTAGES

- Rather thin emulsion for easy coating
- Ideal for fine mesh numbers
- Excellent resolution and definition
- Excellent adhesion and anchorage to the mesh; a strong water or a mild high pressure spray can be used for wash-out.

3. COATING TECHNIQUE

- After sensitizing, the emulsion must stand overnight for complete de-gasing. Coat slowly with strong pressure against the mesh: this helps to avoid pinholes.
- Machine coating is possible
- To reach a flatter stencil profile, 1 or 2 additional coats on the print side can be applied after intermediary drying.
- To reinforce the stencil, an additional coat on the squeegee side is recommended. Increase the exposure time by 20 - 30%.

4. STORING

The freshness of the diazo powder controls the pot life. Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized 18-25°C storage	24 months
Sensitized, stored at 20°C (pot life)	4-6 weeks
Pre-coated in total darkness at 20°C	4 weeks

5. EXPOSURE TIMES

5 kW metal halide lamp at 100 cm distance;
photopolymer bulb at 100 hours operating time.

Coating	Mesh	Time in Seconds
1/2	120/34 W	35
1/2	120/34 Y	70
2/3	120/34 W	40
2/3	120/34 Y	75
1/2	77/55 W	50
1/2	77/55 Y	190

6. STENCIL REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended. Stencil removal is only possible, if the screen has not been hardened chemically.

FOTECO offers several stencil removers:

- **FOTECHEM 2005** Paste
- **FOTECHEM 2042 S** decoater concentrate 1:30

Ghost images can be removed with **FOTECHEM 2089**.