

# FOTECOAT 1570

## Diazo Emulsion

### 1. DESCRIPTION

- Fast, fully solvent resistant screen emulsion with separate diazo powder sensitizer
- Easy to remove
- Blue in color for good transparency

### 2. APPLICATION ADVANTAGES

- 33% solid content before sensitizing
- High viscosity
- For all inks containing solvents alone and no water
- 40% exposure time compared to standard diazo emulsions
- Remains easy to decoat even if aggressive inks have been used during the printing process
- Humidity resistant; does not get „sticky“ in high humidity climate (summer months)
- The mat stencil surface together with a unique composition help to avoid electrostatic problems.

### 3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75MM R)

Mesh	Coating	Stencil Thickness over mesh
43/90 PW	1/1, 2 face coats	12 µm
43/90 PW	2/2	16 µm
77/55 PW	2/3	20 µm
77/55 PW	2/5	30 µm
120/34 PW	1/2	Bµm
120/34 PW	2/3	12 µm
120/34 PW	2/3, 2 face coats	14 µm

**FOTECOAT 1570** is very appropriate for large size stencils because of the short exposure time; it is ideal for machine coating. It can be used successfully on white and dyed mesh, or V2A; coarse meshes are suitable.

### 4. STENCIL QUALITY

- The resolution is good and reaches approximately 60 microns
- The definition is excellent
- After the wash-out the stencil is relatively soft. Use high pressure washout device with low pressure, enough distance and care.
- A chemical hardening is not recommended.

### 5. 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

### 6. EXPOSURE TIMES

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

Coating	Mesh	Time (seconds)
1/2	120/34 W	20
1/2	120/34 Y	30
2/3	120/34 W	35
2/3	120/34 Y	65
2/3, 2 face coats	1120/34 Y	70
2/3	77/55 Y	70
2/2	43/90 W	90

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### 7. 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**.