

# FOTECOAT 1072

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## 1. Description

- Fast, duo-cure diazo-polymer screen process emulsion with separate diazo sensitizer powder, for solvent based inks.
- Purple color, excellent definition and resolution.
- Solvent and humidity resistant.
- The ready-made stencil can be post-hardened by light to increase the ink suitability and to facilitate stencil removal.
- Short exposure time.

## 2. Application advantages

- 38% solids content before sensitizing; approx. 34% after sensitizing.
- Medium viscosity; ideal for very fine meshes.
- Can be coated wet on wet without intermediate drying to reach on a 120-34 polyester mesh a stencil build-up below the mesh of approximately 12 microns.
- Stencils made with FOTECOAT 1072 can be printed with aggressive inks containing solvents and can be decoated with the usual chemicals.

## 3. Coating technique and stencil build-up

- It is recommended to let degas the sensitized emulsion during a few hours to avoid air bubble entrapping. Always coat slowly to avoid pinholes.

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
77-55 monofilament	2/3	20 microns
120-34 monofilament	1/2	10 microns
120-34 monofilament	2/3	14 microns
120-34 monofilament	2/3; + 2	16 microns
140-34 monofilament	1/2	8 microns

- To reach a flatter stencil surface and to lower the Rz-value to improve edge sharpness of the print, 1 or 2 additional coats can be applied after the intermediary drying cycle. Stencil thickness will increase by 1 - 2 microns and the Rz-value go down to 6 - 7 microns.
- FOTECOAT 1072 is ideal for machine coating. If necessary the emulsion can be diluted with water.

#### 4. **Stencil quality**

Definition and resolution are excellent and reaches approx. 40 microns. The stencil surface is mat and has no tendency to stick to the substrate during the printing process or to the film positive. The stencil edges show excellent mesh bridging. A Rz-value of 7 - 8 microns is reached at 14 microns stencil thickness.

#### 5. **Stocking**

- Unsensitized: up to 2 years
- Sensitized, at 20°C: 3 - 4 weeks
- Pre-coated screens stored in complete darkness at 20°C: 4 months

#### 6. **Exposure times**

5 KW metal halide lamp at 100 cm distance; iron charged high pressure bulb at 100 hours burning time.

<u>Coating</u>	<u>Type of mesh</u>	<u>Time in seconds</u>
1/2	120 T white	45
1/2	120 T dyed	80
2/3	120 T white	60
2/3	120 T dyed	90
2/3; + 2	120 T dyed	120
2/3	77 T dyed	140
1/2	140 T dyed	70

#### 7. **Decoating**

- Remove ink first and thoroughly before drying in.
- All commercial decoaters can be used. A high pressure gun is recommended.
- Use approx. 10 liters of water to 100 grams of FOTECHEM 2044 powder to make an excellent remover liquid.
- FOTECO proposes to use FOTECHEM 2004 liquid or FOTECHEM 2005 paste; for machine decoating the concentrated liquid FOTECHEM 2042 is recommended.
- A post-exposure renders the stencil removal easier.

#### 8. **Post-exposure**

Once the stencil is washed-out and dried it can be exposed again under the sun, day light fluorescent tubes or with the exposure lamp in the vacuum frame or outside of the frame.

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