

FOTECOAT 1010

FOTECO

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1. DESCRIPTION

Fast, dual cure Diazo photopolymer screen process emulsion with separate Diazo sensitizer powder, for solvent based and co-solvent ink systems (inks containing a combination of solvents and water) including water based graphic arts inks and aqueous UV inks.

- ♦ Light purple color
- ♦ Medium viscosity
- ♦ Short exposure time
- ♦ Must be processed and stored at temperatures not over 20°C

2. DIRECTIONS

- ♦ 40% solids content before sensitizing (approx. 36% after sensitizing)
- ♦ Can be coated wet on wet without intermediate drying cycle to reach a flat stencil profile with an Rz-value of approximately 7 - 8 at 10 - 12 microns.
- ♦ Stencils made with FOTECOAT 1010 can be printed with all ink systems containing both solvent/water or only solvents



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

Mesh	Coating	Stencil Thickness below mesh
77-55 polyester monofilament	2/3	16 µm
90-48 polyester monofilament	2/3	12 µm
120-34 polyester monofilament	2/2	9 µm
150-31 polyester monofilament	1/2	6 µm

- ♦ 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 decrease to 6-7 microns.
- ♦ FOTECOAT 1010 is ideal for machine coating. If necessary the emulsion can be diluted with water.

4. STENCIL QUALITY

Definition and resolution are excellent. Perfect mesh bridging is possible. After wash-out the stencil is very hard and has low swell characteristics. Printing with most ink types is possible. For long runs with aqueous textile inks and pure water media, FOTECOAT 1915 WR, FOTECOAT 1065 or 1636 are recommended.

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5. STORING

The freshness of the Diazo controls the pot life.

Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	18 months
Sensitized, stored at 20°C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	2 months

6. EXPOSURE TIMES

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

Stencil Thickness Below Mesh	Type of Mesh	Time (seconds)
6 µm	150-31 yellow	45
9 µm	120-34 yellow	55
12 µm	90-48 white	40
16 µm	77-55 white	70

For fine details a post exposure is recommended.

7. REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended.

FOTECO offers several stencil removers:

- ◆ FOTECHEM 2004 liquid; FOTECHEM 2005 paste
- ◆ FOTECHEM 2042 concentrated liquid decoater (1:30) for machine decoating
- ◆ FOTECHEM 2048 is a more efficient liquid concentrate (1:30) for decoating
- ◆ FOTECHEM 2044 powder

The longer the exposure, the better the through-curing of the stencil.

If necessary make a post exposure. Both render the decoating easier.

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FOTECOAT 1019

1. DESCRIPTION

Fast, dual-cure Diazo photopolymer screen process emulsion with separate Diazo sensitizer powder, for co-solvent ink systems (inks containing a combination of solvents and water).

- ◆ Purple color
- ◆ High viscosity
- ◆ Short exposure time
- ◆ Ecologically sound
- ◆ Must be processed and stored at temperatures not over 20°C

2. APPLICATIONS ADVANTAGES

- ◆ 40% solids content before sensitizing (approx. 36% after sensitizing)
- ◆ Can be coated wet on wet without intermediate drying to reach a flat stencil profile with a Rz-value of approximately 7 - 8 at 10 - 12 microns
- ◆ Stencils made with FOTECOAT 1019 can be printed with most inks containing solvents and water

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

Mesh	Coating	Stencil Thickness below mesh
77-55 polyester monofilament	2/3	20 µm
90-48 polyester monofilament	2/3	16 µm
120-34 polyester monofilament	2/3	12 µm
150-31 polyester monofilament	2/2	6 µm

- ◆ 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 inter-mediary drying cycle. Stencil thickness will increase by 1-2 microns and the Rz-value goes down to 6-7 microns.
- ◆ FOTECOAT 1019 is ideal for machine coating. If necessary the emulsion can be diluted with water

4. STENCIL QUALITY

- ◆ Definition and resolution are excellent.
- ◆ Perfect mesh bridging is possible.
- ◆ After wash-out the stencil is very hard and has low swell characteristics



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FOTECOAT 1019

5. STORING

The freshness of the Diazo controls the pot life.

Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	18 months
Sensitized, stored at 20°C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	2 months

6. EXPOSURE TIMES

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

Stencil thickness below mesh	Type of Mesh	Time (seconds)
6 µm	150-31 yellow	60
12 µm	120-34 yellow	75
16 µm	90-48 white	60
20 µm	77-55 white	90

For fine details a post exposure is recommended.

7. REMOVAL

All commercial decoaters can be used. A high pressure gun is recommended

FOTECO offers several stencil removers:

- ◆ FOTECHEM 2004 liquid; FOTECHEM 2005 paste
- ◆ FOTECHEM 2042 concentrated liquid decoater (1:30) for machine decoating;
- ◆ FOTECHEM 2048 is an efficient liquid concentrate (1:30)
- ◆ FOTECHEM 2044 powder

The longer the exposure, the better the through-curing of the stencil.

If necessary make a post exposure. Both render the decoating easier.

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