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TECHNICAL INFORMATION

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FOTECOAT 1019 BLUE

1. Description

- Fast, dual-cure diazo photopolymer screen process emulsion with separate diazo sensitizer powder in sachets, for co-solvent ink systems (inks containing a combination of solvents and water)
- Blue color
- High viscosity
- Short exposure time
- Ecologically sound
- Must be processed and stored at temperatures not over 20°C

2. Application 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 approximatively 7 - 8 at 10 - 12 microns
- Low odor
- Stencils made with FOTECOAT 1019 BLUE can be printed with most inks containing solvents and water

3. Coating technique and stencil build-up (coating trough .75 mm R)

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
77-55 polyester monofilament	2/3	20 microns
90-48 polyester monofilament	2/3	16 microns
120-34 polyester monofilament	2/3	12 microns
150-31 polyester monofilament	2/2	6 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 1019 BLUE 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.

5. Storing

- Unsensitized up to 1 year } *age, transportation- and*
- Sensitized and stored at 20°C (pot life): 2 weeks } *storing conditions*
- Pre-coated screens stored 2 months } *influence the quality of the*
- in complete darkness at 20°C: *emulsion drastically.*

**Store and process FOTECOAT 1019 BLUE
at temperatures not over 20°C.**

*In addition the freshness of
the diazo controls the pot life.*

6. Exposure times

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

<u>Stencil thickness below mesh</u>	<u>Type of mesh</u>	<u>Time in seconds</u>
6 microns	150-31 yellow	60
12 microns	120-34 yellow	75
16 microns	90-48 white	60
20 microns	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 for machine decoating and 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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