1. DESCRIPTION

Very fast, dual cure Diazo photopolymer screen process emulsion with separate Diazo sensitizer powder, for solvent based and UV-inks.

- Light purple color
- Medium viscosity
- Designed for Direct Light Exposure with digital UV-bulbs, laser and exposure diodes
- Can also be exposed with standard contact light systems

2. APPLICATIONS ADVANTAGES

- 30% solids content before sensitizing (approx. 27% after sensitizing)
- Can be coated wet on wet without intermediate drying cycle to reach an adequate stencil profile.
- Ca. 25% shorter exposure time than fast Diazo emulsions

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

- 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.
- FOTECOAT 1020 is ideal for machine coating.

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

<table>
<thead>
<tr>
<th>Condition</th>
<th>Service Life</th>
</tr>
</thead>
<tbody>
<tr>
<td>Unsensitized, 18-25ºC storage</td>
<td>18 months</td>
</tr>
<tr>
<td>Sensitized, stored at 20ºC (pot life)</td>
<td>2 weeks</td>
</tr>
<tr>
<td>Pre-coated screens in total darkness at 20ºC</td>
<td>2 months</td>
</tr>
</tbody>
</table>

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

<table>
<thead>
<tr>
<th>Stencil thickness below mesh</th>
<th>Type of Mesh</th>
<th>Time (seconds)</th>
</tr>
</thead>
<tbody>
<tr>
<td>6 µm</td>
<td>150-31 yellow</td>
<td>30</td>
</tr>
<tr>
<td>9 µm</td>
<td>120-34 yellow</td>
<td>40</td>
</tr>
<tr>
<td>12 µm</td>
<td>100-48 white</td>
<td>50</td>
</tr>
</tbody>
</table>

For fine details a post exposure is recommended.
The usage of FOTECHEM 2154 (“Liquid Light”) to avoid softness by under-exposure is possible

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.