1. DESCRIPTION
- Dual-cure emulsion resistant to UV-cured, solvent- and water based inks
- Excellent print definition and resolution on any mesh
- Uncommon solvent resistance: should be used with inks containing NMP and DMAC and treated with ethyl alcohol
- Easy to decoat
- Blue colour
- Low viscosity

2. APPLICATIONS ADVANTAGES
- Designed for maximum resistance to super solvents
- 34% solids content after sensitizing
- Thanks to its extraordinary composition it can be used for finest line printing
- The best results can be achieved by exposing with a Fresnel-lens MH-lamp

3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING THROUGH .75 MM R)
- FOTECOAT 1079 should be coated by machine
- For steel mesh a coating trough with a steel blade lip should be used
- On polyester a sharp standard blade is adequate

4. STENCIL QUALITY
- With correct exposure with a Fresnel-lamp and adequate coating equipment 20 micron lines can be opened on suitable mesh types
- Perfect mesh bridging is possible because of the ideal viscosity adapted to the mentioned mesh types.
- 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>
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</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
- Ensure that all surfaces (emulsion, film and glass), are free of dust to minimize pinholes.
- Contact the emulsion side of the positive with the substrate side of the screen and secure in position before placing the screen in a suitable vacuum frame.
- Many variables, such as lamp type and age, distance from lamp to screen, mesh type and coating thickness, can affect exposure time.
- Perform an exposure test with one of two calculators now available (Exposure Calculator and 21 Step Sensitivity Guide) to determine correct exposure time for a complete cure.

7. STENCIL REMOVAL
All commercial decoaters can be used. A high pressure gun is necessary.
Stencil removal is only possible, if the screen has not been hardened chemically.

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.
- For the regeneration of the decoated mesh FOTECHEM 2080/2085 can be used to remove all ink and emulsion residues; jet wash is necessary
- Diazo stains can be bleached out after decoating with FOTECHEM 2089

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