FOTECOAT 1090
Rotary textile printing, even compatible with industrial discharges

1. DESCRIPTION
- Dual cure, polymer screen emulsion; blue
- Sensitizing with separate Diazo powder: C119 dissolved in 300 g water to make 4,8 kg set
- The ready to print screens can be polymerized by heat 190-200°C (374-392°F) to obtain mechanical and chemical resistance
- Developed for conventional, laser, digital (wax and ink jet) and DLE engraving
- Optimum resolution for fine lines and half-tones

2. APPLICATIONS ADVANTAGES
- Solids content after sensitizing: 45%
- Excellent adhesion to nickel screens
- Excellent water- and solvent resistance
- Extra good flexibility

3. SENSITIZING AND MIXING
- Dissolve the dose of Diazo preferably with demineralised water, filling half bottle and shake vigorously
- For bottom to top coating and top to bottom double squeegee, mix 1000 g of FOTECOAT 1090 only with dissolved sensitizer
- For best results, use the emulsion after 12 hours from mixing to enable air bubbles to escape

4. SCREEN PREPARATION AND DEGREASING
- Thoroughly degrease the rotary screen prior to use with FOTOCHENM 2003
- Dry and store rotary screen in a dust free, dry environment

5. COATING
- For bottom to top method by hand or machine, apply one coat and dry at 40°C (104°F). If higher thickness is requested, after drying apply one or two coats more and dry again
- Using double squeegee, top to bottom, we suggest a coating speed of 1-2 m/min. Only one coat is sufficient to guarantee perfect resistance

6. DRYING
Thoroughly dry the coated screen at a temperature of 40°C (104°F) in a well-ventilated oven.
7. EXPOSING
- For photo engraving, the exposure time depends on the light source, the mesh count and the length of the cylinder
- For example, expose a 125 mesh, 1 m length, coated top to bottom using double squeegee for 6 minutes with blue fluorescent tubes or for 8 minutes using xenon 6 kW lamp
- When different coating methods are used, you must adjust exposure times depending on the emulsion thickness

8. DEVELOPING
- Soak the engraved screen in a tank of water for 5 to 10 minutes or use an automatic washing machine
- In either case, ensure a thorough final rinse

9. RECLAIMING
- Before polymerization, you may remove FOTECOAT 1090 with FOTECHEM 2004, 2005 or dilute 2048 up to 1:30

10. POLYMERIZATION
- Place the screen into oven at 190°-200°C (374°-392°F) for 1 h, starting when temperature indicated is reached
- After polymerization the stencil is permanent (not reclaimable anymore)

11. HEALTH & SAFETY
- Before using, refer to appropriate material safety data sheets (MSDS).
- To receive the MSDS, please send an e-mail to: SDS@saatichem.com

12. 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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<tbody>
<tr>
<td>Unsensitized, 18-25°C storage</td>
<td>18 months</td>
</tr>
<tr>
<td>Sensitized, stored at 20°C (pot life)</td>
<td>2-3 weeks</td>
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<tr>
<td>Pre-coated screens in total darkness at 20°C</td>
<td>1 week</td>
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