

FOTECOAT 1920 K CERAMIC

1. Description

- Fast, duo-cure polymer type textile printing screen process emulsion with separate diazo sensitizer powder, for aqueous ink systems.
- Light blue color with excellent see-through.
- The ready-made stencil can be post-hardened by light to increase the mechanical and the solvent resistance.
- Very short exposure time.
- Ecologically sound.

2. Application advantages

- 44% solids content before sensitizing.
- Low viscosity, appropriate for meshes between 43-80 and 120-34 (lower viscosity than FOTECOAT 1065 and a higher viscosity than FOTECOAT 1636).
- FOTECOAT 1920 K is a water resistant emulsion that can be printed with most inks containing water and little solvents.
- A longer exposure renders the stencil more resistant against abrasion and therefore allows to print longer runs.
- FOTECOAT 1920 K can be decoated.
- If a permanent stencil for all inks is desired a longer post-hardening by light or a chemical treatment with FOTECHEM 2110 or 2100 Hardener can be used. In such a case the stencil can no longer be decoated.

3. Coating technique and stencil build-up

It is recommended to let degas the emulsion after sensitizing during a few hours.

| <u>Mesh</u> | <u>Coating</u> | <u>Stencil build-up</u> |
|-------------|----------------|-------------------------|
| 43-80 | 1/1 | 20 μ |
| 77-55 | 1/2 | 15 μ |
| 120-34 | 1/1 | 6 μ |
| 120-34 | 1/2 | 10 μ |

FOTECOAT 1920 K is ideal for machine coating. If necessary the emulsion can be diluted with water.

4. Stencil quality

- The definition is excellent. The high solids content allows to reach a flat stencil surface combined with excellent mesh bridging.
- The resolution is good.

5. Stocking

- Unsensitized: up to 1 year
- Sensitized at 20°C: 1 - 2 weeks
- Shelf life for storing of ready-made stencils in the dark at 20°C: 3 weeks

6. Exposure times

5 KW metal halide lamp at 100 cm distance; iron charged high pressure burner at 100 hours burning time.

| <u>Coating</u> | <u>Mesh</u> | <u>Time in seconds after complete drying</u> |
|----------------|---------------|--|
| 1/1 | 43-80 white | 90 |
| 1/2 | 43-80 white | 120 |
| 1/1 | 43-80 yellow | 135 |
| 1/2 | 43-80 yellow | 180 |
| 1/1 | 77-55 white | 70 |
| 1/2 | 77-55 white | 90 |
| 1/1 | 120-34 white | 45 |
| 1/2 | 120-34 white | 60 |
| 1/1 | 120-34 yellow | 70 |
| 1/2 | 120-34 yellow | 90 |

7. Decoating

- Only possible with high pressure gun.
- A higher concentrated remover than usual has to be used. Ideal are FOTECHEM 2004 liquid or FOTECHEM 2005 paste.
- For machine decoating the concentration of the remover liquid has to be increased and the speed of the machine be reduced to a minimum.
- A post-exposure makes the stencil removal easier.

8. Post-exposure

Once the stencil is washed-out and dried it can be exposed again under the sun, day light fluorescent tubes or with the standard exposure lamp; it is recommended to make the post-exposure without the vacuum frame so that no glass between the lamp and the stencil interferes with light absorption.

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