

## TECHNICAL INFORMATION

Küsnacht, October 1992

# FOTECOAT 1915 WR

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## 1. Description

- Fast, duo-cure polymer type textile printing screen process emulsion with separate diazo sensitizer powder, for aqueous ink systems.
- Light purple 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.
- Medium viscosity, appropriate for meshes between 45 T and 120 T (lower viscosity than FOTECOAT 1065 and a higher viscosity than FOTECOAT 1636).
- FOTECOAT 1915 WR 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 1915 WR 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

Because of the relatively high viscosity of FOTECOAT 1915 WR it is recommended to degas the emulsion after sensitizing during a few hours.

<u>Mesh</u>	<u>Coating</u>	<u>Stencil thickness below mesh</u>
43 T multifilament	1/2	20 microns
43 T monofilament	1/1	20 microns
77 T monofilament	1/2	15 microns
120 T monofilament	1/1	4 microns
120 T monofilament	2/3	14 microns

FOTECOAT 1915 WR is ideal for machine coating. If necessary the emulsion can be diluted with water to reach a lower viscosity.

#### 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</u>
1/2	43 T multifilament white	100
1/1	43 T monofilament white	70
1/2	43 T monofilament dyed	105
1/2	77 T monofilament white	90
1/2	77 T monofilament dyed	135
1/1	120 T monofilament white	50
1/1	120 T monofilament dyed	75
1/2	120 T monofilament white	60
1/2	120 T monofilament dyed	90
2/3	120 T monofilament white	70
2/3	120 T monofilament dyed	105

#### 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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