

FOTECOAT 1068

Textile printing with inks containing water and solvents; ideal for plastisoles, glass and ceramic printing.

1. DESCRIPTION

- ♦ Same as 1015 WR, but Diazo can be added directly to emulsion, without water: DIR-AD
- ♦ Fast, dual cure polymer type textile printing screen process emulsion with separate Diazo sensitizer powder, for aqueous ink systems
- ♦ Light purple colour 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. APPLICATIONS ADVANTAGES

- ♦ 41% solids content
- ♦ 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 (COATING TROUGH .75 MM R)

Mesh	Coating	Stencil Thickness below mesh
43-80 white	1/1	20 µm
43-80 white	1/2	30 µm
77-55 white	1/2	18 µm

4. STENCIL QUALITY

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

FOTECOAT 1068

Textile printing with inks containing water and solvents; ideal for plastisoles, glass and ceramic printing.

5. STORING

The freshness of the Diazo controls the pot life.

Age, transportation and storing conditions influence the quality of the emulsion drastically.

Condition	Service Life
Unsensitized, 18-25°C storage	18 months
Sensitized, stored at 20°C (pot life)	4 weeks
Pre-coated screens in total darkness at 20°C	3 weeks

6. EXPOSURE TIMES

5 kW metal halide lamp at 100 cm distance; photopolymer bulb at 100 hours operating time

Coating	Type of Mesh	Time (seconds)
1/2	18 T White	70
1/2	43 T Multifilament White	50
1/1	43 T Monoifilament White	50

7. STENCIL HARDENING

Recommended is FOTECHEM 2130. The hardener can be applied by the usual method. The penetrating and drying times recommended by the manufacturer should be kept to reach the best possible result.

8. 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.

SAATI S.p.A.

These Technical Informations are published without warranty. The results shown in these Technical Informations are based on laboratory testing. The supplier declines any responsibility for incorrect use of these products which are manufactured and sold for industrial use only.