# **FOTECOAT 1570**

## **Diazo Emulsion**

**SPT** Sales + Marketing GmbH

#### FOTECO REMCO SAATI

### **1. DESCRIPTION**

- Fast, fully solvent resistant screen emulsion with separate diazo powder sensitizer
- Easy to remove
- Blue in color for good transparency

#### **2. APPLICATION ADVANTAGES**

- 33% solid content before sensitizing
- High viscosity
- For all inks containing solvents alone and no water
- 40% exposure time compared to standard diazo emulsions
- Remains easy to decoat even if aggressive inks have been used during the printing process
- Humidity resistant; does not get "sticky" in high humidity climate (summer months)
- The mat stencil surface together with a unique composition help to avoid electrostatic problems.

#### 3. COATING TECHNIQUE AND STENCIL BUILD-UP (COATING TROUGH .75MM R)

| Mesh      | Coating           | Stencil Thickness<br>over mesh |
|-----------|-------------------|--------------------------------|
| 43/90 PW  | 1/1, 2 face coats | 12 µm                          |
| 43/90 PW  | 2/2               | 16 µm                          |
| 77/55 PW  | 2/3               | 20 µm                          |
| 77/55 PW  | 2/5               | 30 µm                          |
| 120/34 PW | 1/2               | Bμm                            |
| 120/34 PW | 2/3               | 12 µm                          |
| 120/34 PW | 2/3, 2 face coats | 14 µm                          |

**FOTECOAT 1570** is very appropriate for large size stencils because of the short exposure time; it is ideal for machine coating. It can be used successfully on white and dyed mesh, or V2A; coarse meshes are suitable.

### **4. STENCIL QUALITY**

- The resolution is good and reaches approximately 60 microns
- The definition is excellent
- After the wash-out the stencil is relatively soft. Use high pressure washout device with low pressure, enough distance and care.
- A chemical hardening is not recommended.

#### **5. STORING**

The freshness of the diazo powder controls the pot life. Age, transportation and storing conditions influence the quality of the emulsion drastically.

| Condition                             | Service Life |
|---------------------------------------|--------------|
| Unsensitized 18-25°C storage          | 24 months    |
| Sensitized, stored at 20°C (pot life) | 4-6 weeks    |
| Pre-coated in total darkness at 20°C  | 4 weeks      |

#### **6. EXPOSURE TIMES**

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

| Coating           | Mesh      | Time (seconds) |
|-------------------|-----------|----------------|
| 1/2               | 120/34 W  | 20             |
| 1/2               | 120/34 Y  | 30             |
| 2/3               | 120/34 W  | 35             |
| 2/3               | 120/34 Y  | 65             |
| 2/3, 2 face coats | 1120/34 Y | 70             |
| 2/3               | 77/55 Y   | 70             |
| 2/2               | 43/90 W   | 90             |



Continue on page 2 of 2

SPT Sales + Marketing GmbH ein Unternehmen der SAATI Group Kurpfalzring 100A, 69123 Heidelberg *Telefon:* +49 (0) 62 21 | 77 876-27 *E-Mail:* spt@spt-gmbh.com *Web:* www.spt-gmbh.com

**Issue September 2019** 

## **FOTECOAT 1570**

**Diazo Emulsion** 

### 7. STENCIL REMOVAL

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

**FOTECO** offers several stencil removers:

- FOTECHEM 2005 Paste
- FOTECHEM 2042 S decoater concentrate 1:30

Ghost images can be removed with **FOTECHEM 2089**.

**SPT** Sales + Marketing GmbH

#### FOTECO REMCO SAATI



Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. It is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of products for specific final application is exclusively your responsibility. SPT Sales + Marketing GmbH ein Unternehmen der SAATI Group Kurpfalzring 100A, 69123 Heidelberg *Telefon:* +49 (0) 62 21 | 77 876-27 *E-Mail:* spt@spt-gmbh.com *Web:* www.spt-gmbh.com

**Issue September 2019**