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- A collection of various TIFLEX products. At the top left is a large blue jug of 'TIFLEX 1L' liquid. In the center is a black bucket. To the right is a large white jug of 'TIFLEX 1L' liquid. Below these are several rolls of tape: yellow, green, and black. In the center is a white can of 'TIFLEX 1L' powder. To the right is a black container and a small white bottle. At the bottom are several pieces of black and silver material, possibly seals or gaskets.

## 1. Diazocompound photosensitive solutions (halogen insolation, neons, HPR lamps)

### • Diazo 19 S (for solvent-based inks)

Supplied in 0.9 l pots (ref. 2512031), boxes of 6 x 0.9 l pots (ref. 25120316) and 4.5 l buckets (ref. 2514031) with diazocompound sensitiser dose, this solution can be used in thin and thick layers alike. It guarantees good definition, resists solvents, and is also suitable for small printing runs with water-based inks.

It is stripped off with cold water. Its retrieval requires active de-engraving agents (**Oxygel**, **Oxysol\***, **Oxylic**) followed by finishing with a high pressure de-engraver.

Stored in the dark, screens coated with **Diazo 19 S** can be kept for 15 days.

The sensitised emulsion can be kept for 2 months at 20°C.

### • Diazo 149 S (for solvent-based inks)

Supplied in 0.9 l pots (ref. 2512041), boxes of 6 x 0.9 l pots (ref. 25120416) and 4.5 l buckets (ref. 2514041) with diazocompound sensitiser dose, this solution is used in thin layers for four-colour printing. It guarantees excellent definition and full resistance to all solvents.

It is stripped off with cold water. Its retrieval requires active de-engraving agents (**Oxygel**, **Oxysol\***, **Oxylic**) followed by finishing with a high pressure de-engraver.

Stored in the dark, screens coated with **Diazo 149 S** can be kept for 15 days.

The sensitised emulsion can be kept for 2 months at 20°C.

### • Diazo 19 T (for water-based inks)

Supplied in 0.9 l pots (ref. 2512061), boxes of 6 x 0.9 l pots (ref. 25120616) and 4.5 l buckets (ref. 2514061) with diazocompound sensitiser dose, this solution can be used in thin and thick layers alike. It offers good resistance to water-based inks and is suitable for small printing runs with solvent-based inks.

It is stripped off with cold water. Its retrieval, which is less easy, requires, in addition to active de-engraving agents (**Oxygel**, **Oxysol\***, **Oxylic**), use of a powerful de-engraver (P > 100 bars).

Stored in the dark, screens coated with **Diazo 19 T** can be kept for 15 days.

The sensitised emulsion can be kept for 2 months at 20°C.

## 2. Diazocompound photopolymer composite photosensitive solutions (neons and halogen insolation)

### • UST (universal but more suitable for solvent-based inks)

Supplied in 0.9 l pots (ref. 2572031), boxes of 6 x 0.9 l pots (ref. 25720316) and 4.5 l buckets (ref. 2574031) with sensitiser dose, this composite emulsion is appreciated for its outstanding versatility and its high definition.

It is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic** followed by finishing with a high pressure de-engraver.

Stored in a dark, dry room at a temperature of 20°C, screens sized with **UST** can be kept for 5 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • 200 S (for solvent-based inks)

Supplied in 0.9 l pots (ref. 25C2010), boxes of 6 x 0.9 l pots (ref. 25C20106) and 4.5 l buckets (ref. 25C4010) with sensitiser dose, this composite emulsion is appreciated for its **high definition**.

It is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic** followed by finishing with a high pressure de-engraver.

Stored in a dark, dry room at a temperature of 20°C, screens sized with **200 S** can be kept for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • 200 T (universal)

Supplied in 0.9 l pots (ref. 25C2030), boxes of 6 x 0.9 l pots (ref. 25C20306) and 4.5 l buckets (ref. 25C4030) with sensitiser dose, this composite emulsion offers good resistance to water-based inks. It is particularly intended for thick coatings. It is also used with plastisols and some solvent-based inks.

It is stripped off with cold water. Its retrieval, which is less easy, requires, in addition to active de-engraving agents (**Oxygel**, **Oxysol\***, **Oxylic**), use of a powerful de-engraver (P > 100 bars).

Stored in the dark, the screens coated with **200 T** can be kept for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • 400 ST (universal)

Supplied in 0.9 l pots (ref. 25C2050), boxes of 6 x 0.9 l pots (ref. 25C20506) and 4.5 l buckets (ref. 25C4050) with sensitiser dose, this composite emulsion offers good resistance to water-based inks, solvent-based inks and plastisols. It is particularly recommended for its insolation tolerance and its high definition.

It is stripped off with cold water. De-engraving is carried out by the standard de-engraving agents (**Oxygel**, **Oxysol\*** or **Oxylic**) and the use of a powerful de-engraver (P > 100 bars).

Stored in the dark, the screens coated with **400 ST** can be kept for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

## 3. Photosensitive solutions SAATICHEM™

### • Graphic HU + D31

Supplied in 6 x 0.9 kg pots (ref. 2572030) and 2 x 4.5 kg pots (ref. 2574030) with sensitiser dose, this universal solution (for UV, solvent-based and water-based inks) is dedicated to all industrial applications.

It is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic**, followed by finishing with a high pressure de-engraver.

The coated screens must be stored in a dry, dust-free place, either in the dark or in yellow light conditions for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • Vitrum HHU + D31

Supplied in 2 x 4.5 kg pots (ref. 2574050), this solution is resistant to water-based and solvent-based inks. It is particularly suited to applications on glass.

It is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic**, followed by finishing with a high pressure de-engraver.

The coated screens must be stored in a dry, dust-free place, either in the dark or in yellow light conditions for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • Textil PV

Supplied in boxes of 6 x 0.9 kg pots (ref. 2572062), this photopolymer solution is used with plastisol and water-based inks.

This emulsion is used for direct coating or for the lamination of thick capillary films. It exhibits an excellent filling power.

The emulsion is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic**, followed by finishing with a high pressure de-engraver.

The coated screens must be stored in a dry, dust-free place, either in the dark or in yellow light conditions for 1 week.

The emulsion can be kept for 15 days at 20°C.

### • Ceramic HT1 + D51

Supplied in 2 x 5 kg pots (ref. 2574070), this "triple cure" emulsion is used with water-based inks and particularly abrasive products (enamels, chromos).

It is stripped off with water. The screen is retrieved by our de-engraving agents **Oxygel**, **Oxysol\*** or **Oxylic**, followed by finishing with a high pressure de-engraver.

The coated screens must be stored in a dry, dust-free place, either in the dark or in yellow light conditions for 15 days.

The sensitised emulsion can be kept for 1 month at 20°C.

### • Fixer 9

Supplied in 1 kg pot (ref. 2572090), this chemical catalyst of insolated and dried solutions increases screen resistance to abrasion, solvents and water. The stencil is now permanent and cannot be de-engraved.

The **Fixer 9** can be used for all emulsions.

## 5. Additional screen manufacturing products

### • Prep'écran

Supplied in 5 l jerrycans (ref. 2544042), this degreasing agent prepares the fabric thread for coating with the solutions and assembly of the capillary films.

## 6. Additional reinforcing and retouching products

### • Reinforcing solution

Supplied in 1 l pot (ref. 2522010). This varnish is used for retouching, reinforcing and sealing screens. 10% soluble in water and brushed on, it is fully resistant to all solvents and can be removed with standard de-engraving agents.

### • Blue pore stopper

Supplied in 5 l jerrycans (ref. 2524022), this stopper is used for retouching, reinforcing and sealing screens. Brushed on, it dries rapidly, fully resists all solvents and can be removed with standard de-engraving agents. Its blue colour makes it easier to apply.

### • XD 153 filling solution

Supplied in 5 l jerrycans (ref. 2524020), this solution is recommended whenever large areas need to be blocked up. It is applied by spatula or hollow sizing doctor blade. Odourless, it dries quickly, resists all solvents and is easily removed with water.

### • Résistalo solution

Supplied in 1 l boxe (ref. 2522080), it is used for retouching and reinforcing screens having to resist inks diluted with water. It is applied by brush or spatula, dries quickly and is removed using a solvent.

## 7. Additional de-engraving agents

### • Oxygel

A de-engraving agent supplied in 5 kg buckets (ref. 2533960), this ready-to-use **gel** is brushed on. Most photosensitive films and solutions are solubilised in just three to five minutes.

### • Oxysol\*

A de-engraving agent supplied in 100 g (ref. 2530530) or 500 g (ref. 2531730) bottles and in 25 kg (ref. 2536030) drums as a concentrated salt. 100 g of powder are dissolved in water to produce 5 to 10 l of ready-to-use **liquid**, according to the required degree of efficiency. Most solutions are solubilised in just three to five minutes.

### • Oxylic

A ready-to-use **liquid** de-engraving agent, supplied in 5 l jerrycans (ref. 2534050). Most solutions are solubilised in just three to five minutes.

### • Concentrated de-engraving agent

Supplied in 5 l jerrycans (ref. 2534070), this cost-efficient product is intended for manual or automatic de-engraving of screens.

It is diluted with water (1 volume of concentrated product for 20 volumes of water). Most photosensitive films and solutions are solubilised in just three to five minutes.

### • 4886 finisher

Supplied in 1 l (ref. 2082080) cans, this finisher is useful if you do not have a de-engraver. It is used in combination with de-engraving agents, by dissolving any undesirable traces remaining on the fabric.

## 8. Products for the treatment of ghost images

### Combined action of 2 products:

#### 1 liquid + 1 gel

### • Oxymage (ref. 25A3910) and Solvymage (ref. 25A4020)

Products for the elimination of ghost images and to prevent yellowing of fabrics, due to the use of a diazocompound sensitizer, slow-acting and with 12-hour efficiency.

**Step 1:** the **Oxymage** gel, supplied in 5 l buckets, is a high viscosity product. Its application on a screen lasts approximately 12 hours (overnight).

**Step 2:** complete **Oxymage**'s action by application of the **Solvymage** liquid, supplied in 5 l jerry cans, after the 12-hour period.

**Step 3:** after retrieval of product excess, use the high pressure de-engraver on the screen.

### • Oxypâte (ref. 25A3930) and Solvypâte (ref. 25A4040)

Products for the elimination of ghost images and to prevent yellowing of fabrics, due to the use of a diazocompound sensitizer, quick-acting and efficient: application 15 to 30 min.

**Step 1:** Supplied in 5 l jerry cans. The **Solvypâte** liquid prepares the fabric for the quick action of the **Oxypâte** gel.

**Step 2:** Supplied in 5 l buckets. Apply the **Oxypâte** gel immediately.

**Step 3:** after retrieval of product excess, use the high pressure de-engraver on the screen.

### • Applicator brush (ref. 2542090)

Nylon brush used to apply all products for the treatment of ghost images.

## 8. Miscellaneous screen manufacturing supplies:

### • Polyurethane adhesive (ref. 2522044)

A two-component polyurethane base used for gluing silkscreened fabrics stretched over wooden or metal frames, it is supplied in 830 g pots plus hardener in 170 g pot.

Good resistance to solvents (cleaning) and hot water (stripping).

### • Hollow sizing doctor blade (ref. 2540000NC)

Made of light extruded alloy and supplied in the required length, the hollow sizing doctor blade is equipped with 2 removable plastic ends for easy cleaning.

Its round uniform profile ensures high quality sizing at constant thickness.

### • Polynoir plastic tape (ref. 2550150)

Available in 66 m long rolls in 50 mm.

It guarantees excellent screen watertightness.

The polypropylene support is particularly resistant to physical and chemical stress.

### • Polytoil adhesive tape

Available in 50 m long rolls in 4 widths: 25 (ref. 2552050), 38 (ref. 2552100), 50 (ref. 2552150) and 75 mm (ref. 2552200).

It exhibits the same mechanical strength properties as the Polynoir, but with greater flexibility and superior adherence when used with screen washers.

### • Silver adhesive tape

Applied directly on the fabric on the outer side of the screen, it stops any "leaks". It is fully resistant to solvents and thinners.

Available in 66 m rolls in 2 widths: 25 (ref. 2553050) and 38 mm (ref. 2553110).

### • Masking tape

Paper adhesive tape.

Available in 50 m long rolls in 2 widths: 36 (ref. 2554000) and 48 mm (ref. 2554010).

## 9. Solution selection table

### Remarks:

- A number of characteristics are assessed on a quality scale ranging from 1 star for the worst result to 5 for the best.
- The definition of a coated solution is its ability to reproduce a geometric shape such as a circle.
- The resolution of a coated solution is its ability to reproduce the thinnest possible line.

CHARACTERISTICS	Diazo 19 S	Diazo 149 S	Diazo 19 T	UST	200 S	200 T	400 ST	Graphic HU + D31 (purple/violet)	Vitrum HHU blue + D31 (blue)	Textil PV (red)
Viscosity of non-sensitised emulsion at 20°C	6 Pa.s	7,5 Pa.s	6 Pa.s	8 Pa.s	18 Pa.s	18 Pa.s	19 Pa.s	13 Pa.s	35 Pa.s	8,5 Pa.s
Viscosity of non-sensitised emulsion at 20°C				5 Pa.s	7,5 Pa.s	5,5 Pa.s				
Dry extract content	26 %	29 %	38 %	35 %	34 %	44 %	49 %	39 %	45 %	42 %
Definition	***	****	****	*****	*****	*****	****	*****	*****	*****
Resolution	***	****	***	*****	*****	*****	****	*****	****	*****
Resistance to solvents	****	****	**	****	*****	**	***	*****	*****	*****
Resistance to water	**	*	****	**	**	*****	***	****	****	*****
De-engraving	****	****	**	****	****	****	****	*****	*****	*****
Approximate lifetime of sensitised emulsion at 20°C	2 months	2 months	2 months	1 month	1 month	1 month	1 month	1 month	1 month	15 days
Approximate lifetime of non-sensitised emulsion	2 years	2 years	2 years	1 year	1 year	1 year	1 year	1 year	1 year	1 year
Approximate lifetime of the coated screen stored at 20°C	15 days	15 days	15 days	15 days	15 days	15 days	15 days	15 days	15 days	7 days
Recommended mesh	from 50 to 165 treads/cm	from 50 to 200 treads/cm	from 10 to 135 treads/cm	from 40 to 200 treads/cm	from 40 to 200 treads/cm	from 30 to 165 treads/cm	from 30 to 165 treads/cm	from 43 to 200 treads/cm	from 12 to 120 treads/cm	from 12 to 120 treads/cm