COMPANY*PROFILE*

SPT Sales + Marketing GmbH

FOTECO REMCO SAATI

Our message to you:
SPT – we live Screen Printing.

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SPT Sales + Marketing GmbH is the distribution center for the brands SAATI, FOTECO and REMCO for Europe, Africa, Middle East and India. As part of SAATI S.p.A. group located in Italy we are your global, strong and technically competent partner within the screen printing market for the distribution area EMEA.
Our product range covers the entire pre-press and screen post-press process of screen printing: from mesh up to decoating – we assist you with your work-flow and work-processes.

SPT currently employs 20 people, having either a professional screen printing or chemical background in their professional vitae. Besides of sales and distribution of the brands represented and the products sold in the scope of stencil materials, screen cleaners and screen chemicals, we focus on highly qualified technical consulting for our screen printing customers and our trade partners within our sales territory.

In our main location in Appiano Gentile, as well in the SPT premises in Heidelberg we operate a technical center, where we train our customers and distributors, thus sharing our experience and providing hands-on information.

All products are supplied from our central warehouse in Heidelberg to our global customers.
We are looking forward to the cooperation with you.

ATTENTION NEW TELEPHONE-NUMBER
+49 (0) 62 21 | 77 876-27

FRAME ADHESIVES PROTECTIVE LACQUERS

1

Frame adhesives have to be universal, fast and safe in their application for all mesh types. They have to provide highest resistance against screen cleaners. An outstanding adhesion on all different screen frames is a must, as it is an easy application, even under most difficult local working conditions. All these requirements are complied in an excellent way when using our VARIOGLUE / FOTECHEM products. Our protective lacquers are used to over-varnish the stretched screens, either to distinguish them in colour, or to provide additional protection, for example when used in automatic screen washing equipment.

VARIOGLUE 0012 A/H
FOTECHEM 20012 A/H
Our most reactive 2-component adhesive. The product has a very quick drying and curing time, combined with excellent adhesion. Its medium viscosity provides very easy processing characteristics for most mesh types. Colour: red.

VARIOGLUE 0015 A/H
FOTECHEM 2330/2335
VARIOGLUE 0017 A
FOTECHEM 2320 HV/2325
This range of 2-component adhesives has a higher viscosity and can therefore be ideally used for processing coarser fabrics. If the adhesives are supposed to be applied on finer mesh counts, the user can dilute them with our special thinners to achieve a lower viscosity. The following basic products and colours are available as standard products: VARIOGLUE 0015 A/H (FOTECHEM 2330/2335): transparent, can be used for filtration fabrics. Can be individually colour coded by using our colour concentrates VARIOGLUE PS.
VARIOGLUE 0017 A/H (FOTECHEM 2320 HV/2325): red.

FOTECHEM 2500
Water-based adhesive for T-Shirt printing pallets and tables.

VARIOGLUE PS
1502 1503 1505 1506
Pigment solutions supposedly used with our transparent 2-component adhesive VARIOGLUE 0015 A/H (FOTECHEM 2330/2335). The product is ideal for the colour coding of screen frames or for individualizing workflows in the print room.

VARIOGLUE 0112 T
Special thinner to adjust the viscosity of our 2-component adhesive VARIOGLUE 0012 A/H (FOTECHEM 20012 A/H). It can also be used to degrease aluminium screen frames or to clean brushes.

VARIOGLUE 0113 T
FOTECHEM 2327 T
Special thinner to adjust the viscosity of all our other 2-component adhesives of the VARIOGLUE / FOTECHEM product range (not for FOTECHEM 2340).

VARIOGLUE 0115 RT
Reactive thinner for 2-component adhesives (not for FOTECHEM 2340). Adding this product will accelerate the drying time, but shorten the pot life of the mixture considerably.

VARIOGLUE 0107 AR
VARIOGLUE 0108 AR
Efficient screen frame cleaners – safe and easy in use. The product is either supplied as a liquid cleaner (0107 AR) or as a cleaning gel (0108 AR). Removes mesh residues, adhesive residues, dust, dirt and grease.

VARIOFLEX 0082 NL/NH
2-component protective lacquer. Very high resistance against all types of screen cleaners used in the workflow. Colour: blue.

DEGREASERS 2

The preparation of the stretched screens before stencil making is one of the most underestimated processes in the workflow of a screen printer. But: the very limited effort to prepare a screen properly before coating it with screen emulsions or applying capillary films has an immediate return: when using one of our degreasing or mesh preparation chemicals you'll be on the safe side.

VARIOPREP 3030 Degreaser concentrate 1 : 10. For manual application. Removes quickly and efficiently dirt, dust and greasy residues on all mesh types and thus ensures and excellent adhesion of the stencil materials to be applied further in the process. Biodegradable. Colour: blue.

VARIOPREP 3031
FOTECHEM 30031 Degreaser concentrate 1 : 30/50. The product is biodegradable and has only a very slight foaming effect. It is thus suitable for automatic screen treating equipment. Its colour is slightly reddish.

VARIOPREP 3080 Mesh-preparation concentrate, miscible 1 : 5 with water. Perfect for the preparation of screens where a capillary film is applied as stencil material. The product is biodegradable and has only a very slight foaming effect. It is thus suitable for automatic screen treating equipment. Colour: ochre.

VARIOPREP 3101 A water-soluble degreasing concentrate, formulated for manual application and use in automatic reclaiming machines for surface wetting, especially for stainless steel and nickel mesh.

FOTECHEM 2033 A special degreaser concentrate, supplied in a slightly gel-type state. As such it allows the user to produce a liquid mesh degreaser in a very economical and easy-to-be-applied way. Mixing ratio 10 : 1.

FOTECHEM 2003 FOTECHEM 2003 is a slightly alkaline ready-to-use degreasing solution, which removes dirt, dust and grease residues from the surface of the fabrics. Suitable for all types of mesh, either new or used.

FOTECHEM 2002 Non-hazardous flow-enhancer, combined with a degreasing solution for direct emulsion coating. FOTECHEM 2002 is a ready-to-use gel to be applied by brush or coating trough.

FOTECHEM 2023 FOTECHEM 2023 is a slightly alkaline abrasive/degreaser gel. It provides a better wetting of the mesh surface and improves adhesion of all types of stencils, especially on new mesh. A second degreasing step with this product is not necessary.

FOTECHEM 2025 FOTECHEM 2025 is a ready-to-use gel of brownish colour. It helps to form a water film on the degreased mesh to allow a smooth and uniform application of all FOTECAP capillary films. The use of FOTECHEM 2025 avoids pinholes after the transfer of the capillary film. FOTECHEM 2025 is an absolute „must use product", when working with capillary films.

DIAZO SCREEN EMULSIONS 3.1

After the process of screen preparation the next step is the selection of the appropriate stencil material. SPT offers with the FOTECO product range an extensive choice of such products. First we would like to introduce you to our traditional screen emulsions, based on pure DIAZO technology. The DIAZO powder is used to sensitize the emulsions and triggers the light sensitivity of the emulsion. It reacts with the various types of PVA (Poly Vinyl Alcohol). The result is a resistant stencil surface, which can be easily reclaimed after use.

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1569	purple	33%	solvent-based inks, UV, plastisol	graphics, electronics, industrial	8	8	10	1	7	no	no	10
FOTECOAT 1570	blue	33%	solvent-based inks, UV, plastisol	graphics, electronics, industrial	9	9	10	2	8	no	no	9
FOTECOAT 1636	purple	36%	plastisol, aqueous media	textile print	5	9	3	10	9	no	yes	4
FOTECOAT 1711	light purple	25%	solvent-based inks, UV, plastisol	graphics, electronics, industrial	9	10	9	3	8	no	no	9
FOTECOAT 1771	blue	25%	solvent-based inks, UV, plastisol	graphics, electronics, industrial	9	9	8	3	9	no	no	7

Pure DIAZO screen emulsions like our FOTECOAT 15xx, 16xx and 17xx series are still the backbone in many screen printing operations today, in spite of the progress in the stencil material technology. They provide an outstanding price/quality ratio, good resistances against the mentioned printing media and easy decoating. All those good arguments are the reasons for the on-going good sales performance of FOTECOAT DIAZO screen emulsions.

DUAL CURE SCREEN EMULSIONS 3.2

These products are the logical next step of pure DIAZO technology. However, research and development of UV raw materials resulted in special acrylate polymers, which could be combined with traditional DIAZO sensitizers. The result: products with best definition, fast exposure and high resistance. The DIAZO powder triggers light sensitivity and a chemical reaction with PVA and acrylate polymers, hence the generic product category of dual cure screen emulsions.

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1016	red	34%	UV-inks, solvent inks, conductive inks	Industrial and grafic screen printing, touch panel	10	10	10	7	10	no	no	9
FOTECOAT 1018	blue	36%	UV-inks, aqueous UV-inks, solvent inks	peelable soldermask	9	9	9	6	9	yes	no	8
FOTECOAT 1019 1019 BL	purple and blue	36%	UV-inks, solvent inks	Industrial and grafic screen printing	9	10	9	8	8	yes	no	8
FOTECOAT 1020	light purple	27%	UV-inks, aqueous UV-inks, solvent inks	Grafic screen printing	10	10	9	8	8	yes	no	8
FOTECOAT 1025 Triple Cure	blue	41%	plastisol, aqueous media, discharge inks	textile	8	7	4	9	10	yes	yes	7
FOTECOAT 1030	blue and purple	36%	UV-inks, aqueous UV-inks, solvent inks	Industrial and grafic screen printing	10	10	9	8	8	yes	no	9
FOTECOAT 1060	blue	41%	UV-inks, aqueous UV-inks, solvent inks	glass	9	9	8	10	10	yes	yes	6
FOTECOAT 1065	light blue	44%	plastisol, aqueous media	textile	8	8	5	10	10	yes	yes	4
FOTECOAT 1068 1068 BL	blue and purple	41%	plastisol, aqueous media, inks with water-/ solvent-mixture	textile, glass, ceramic	8	8	8	10	10	yes	yes	4
FOTECOAT 1070 MATT (perfect for CtF application)	purple	38%	UV-inks, aqueous UV-inks, solvent inks	object printing, glass printing, electronic-, industrial- and graphic screen print	9	10	9	8	8	yes	no	8

PLEASE NOTE REVERSE SIDE ->

3.2 *DUAL CURE* SCREEN EMULSIONS

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1072	purple	34%	UV-inks, aqueous UV-inks, solvent inks	object printing, glass printing, electronic-, industrial- and graphic screen print	8	10	9	6	9	yes	yes	9
FOTECOAT 1077	blue	38%	inks with very agressive solvents	Electronic- and industrial screen print. Solar panels	9	9	10+	6	10	yes	no	6
FOTECOAT 1090	red	45%	plastisol, aqueous media, discharge inks	Rotary textile printing	8	7	3	10	10	no	no	0

The versatility of screen printing is clearly visible when looking at our above FOTECO selection of dual cure screen emulsions. But: the above products are only some of our complete dual cure range. Our experienced screen printing technicians will recommend the best suitable emulsion for your use individually according to your requirements.

DUAL CURE SCREEN EMULSIONS WITH DIRECT ADDITION OF DIAZO SENSITIZER

3·3

Besides the usual method of mixing the DIAZO sensitizer powder with water and then adding it to the screen emulsion, the FOTECOAT DIR-AD assortment offers a distinctive feature: just add the DIAZO sensitizer powder directly into the product, stir well and use it. Sensitizing an emulsion can't be much easier.

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1915 WR DIR-AD	light purple	41%	plastisol, aqueous media, inks with water-/ solvent-mixture	textile	9	9	5	9	9	yes	yes	4
FOTECOAT 1920 DIR-AD	light blue	42%	aqueous media, inks with water-/ solvent-mixture	textile and ceramic	8	8	4	10	9	yes	yes	4
FOTECOAT 1930 M	blue	46%	aqueous media, inks with water-/ solvent-mixture	ceramic	9	8	7	10	10	yes	yes	3
FOTECOAT 1970 DIR-AD	blue	33%	UV-inks, aqueous UV-inks, solvent inks	object printing, glass printing, electronic-, industrial- and graphic screen print	9	10	9	8	8	yes	no	9

The above range of DIR-AD products is only a selection, representing our best-sellers. Our experienced screen printing technicians might recommend further products individually, according to your individual requirements.
Please consult our technicians whenever you need help. To find out how to add the DIAZO directly in the DIR-AD method, please watch our video sequence on YouTube®: hiip://www.youtube.com/watch?v=VVmlTHbDDDs

PHOTOPOLYMER SCREEN EMULSIONS 3.4

This DIAZO-free alternative represents the latest actual research and development results of a screen emulsions. Its formula is based on a light-sensitive substance, combined with photointiators and acrylate polymers as well as new PVA-combinations. The result: ready-to-use single component emulsions with high-speed exposure times. They provide quickest workflows. It is generally recommended to work under yellow light conditions, due to the high reactivity of pure photopolymer emulsions.

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1830 SOLO	red	47%	aqueous media, plastisol-, discharge-, abrasive and solvent based inks	Industrial, glass and textile print	9	9	9	10	9	yes	yes	8
FOTECOAT 1831 SOLO	red	42%	aqueous media, plastisol- and discharge inks	textile	10	10	6	10	8	yes	yes	9
FOTECOAT 1832 RED / ND	red or clear	42%	solvent based- and plastisol inks	textile	7	9	9	5	9	yes	no	7
FOTECOAT 1833 SOLO	blue	45%	aqueous media, plastisol- and discharge inks	textile	9	9	9	10	8	yes	yes	8
FOTECOAT 1835-N SOLO	purple	51%	aqueous media, plastisol inks, glitter media, 3D	textile	7	9	3	9	6	no	yes	6
FOTECOAT 1847 N	blue	45%	Plastisol- and solvent based inks, 3D printing	Industrial-, graphic and glass print	-	9	9	5	-	yes	no	5
FOTECOAT 1850 SOLO	blue-purple	36%	UV-inks, aqueous UV-inks, solvent based inks, plastisol	Industrial, graphic and textile print	8	8	10	1	7	yes	no	10
FOTECOAT 1852	blue	40%	UV textil plastisol, water based	Industrial and grafic screen printing	8	8	7	8	8	yes	no	7
FOTECOAT 1860 SOLO	green and purple	35%	aqueous media, plastisol inks	textile	8	8	10	4	6	no	no	10

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3.4 *PHOTOPOLYMER* SCREEN EMULSIONS

Product	Colour	Solids content after sens.	Suitability	Application	Resolution	Edge sharpness	Solvent resistance	Water resistance	Abrasion resistance	Post-exposure	Chemical hardening	Decoating
FOTECOAT 1455 CTS	red	39%	UV-inks, solvent-based inks	Grafic, glass and industrial screen print	9	8	9	3	7	yes	no	7
FOTECOAT 1456 CTS	purple	33%	UV-inks, aqueous UV-inks, solvent inks	object printing, glass-, electronic-, industrial- and graphic screen printing	10	10	10	1	8	yes	no	5
FOTECOAT 1457 CTS	red	27%	UV-inks, aqueous UV-inks, solvent inks	graphic screen print	10	10	10	1	6	yes	no	10
FOTECOAT 1468 CTS	blue	35%	UV-inks, aqueous UV-inks, solvent inks	glass	9	9	8	6	9	yes	yes	7

Further single component photopolymer products are available. We would recommend these individually. Please contact our application technicians to find an individual solution for your printroom.

CAPILLARY FILMS *AND* THICK FILMS

3.5

Capillary films are literally screen emulsions on a polyester carrier. They are transferred onto the screen to produce a stencil surface by using the physical phenomenon of water capillaries. The advantages are obvious: a very smooth surface and uniform stencil thickness and high speed in the workflow of the printing operation. Continuously equal stencils provide standardised printing processes.

FOTECAP TOPAZ
4118
4122
4125
4128
4135
4150

Our FOTECAP capillary film product range starts with TOPAZ, being based on a pure DIAZO sensitized coating. The emulsion is applied on a 75 micron polyester carrier, dried slowly and thus achieves the final capillary film. TOPAZ is available in dry film thicknesses of 18, 22, 25, 29, 40 and 52 microns. It has a violet colour and is resistant against solvents and UV inks. We offer cut sheets as well as roll sizes in various widths and lengths. Important: to determine the correct dry film thickness and the corresponding mesh size, please consult our special technical brochure FOTECAP film application.

FOTECAP
4312 CD-UV

A special product for the CD industry: a capillary film using a dual cure polymer emulsion, resulting in a dry film thickness of 15 microns and a very low Rz-value. With these parameters the customer achieves a rather thin stencil build-up over the mesh surface.

FOTECAP RUBY
4515
4520
4525
4540

Capillary film on dual-cure coating technology. The film has excellent solvent resistance combined with high surface flexibility. The application range covers the whole graphic and industrial screen-printing field. High edge definition, very high resolution and wide exposure range are the leading features of this capillary film. With postexposure the capillary film is water resistant. FOTECAP RUBY is available in different dry film thicknesses, as well as in rolls and in customs-cut sheet material. The colour of FOTECAP RUBY is red.

FOTECAP ZIRCON N
4615 N
4620 N
4625 N
4630 N
4640 N
4650 N

Pre-sensititated capillary film with excellent flexibility and high abrasion resistance. The fact that the film is suitable for water-soluble and solventbased printing media is one of the unique features of this photopolymer capillary film. Different thickness for dry film are available, as well as roll- and sheets articles. Unbeatable edge definition, very high resolution and wide exposure range for all coloured synthetic screen fabrics or steel-mesh are characteristical for the FOTECAP ZIRCON N. Due to its coating with a pure photopolymer emulsion the material can be stored for quite a long time, even under difficult climate conditions. FOTECAP ZIRCON N is highly suitable for finest 4-colour process jobs as well as fine-line printing works with solvent-based- or UV-inks. Ink deposit depends on dry film thickness of the capillary film. Detailed information is available from our technical data sheet.

FOTECAP TECNO
100
150
200
250
300
400
700

Special thick films are nowadays a standard in the screen printing industry. Using our capillary thick films FOTECAP TECNO increases the options for screen printers in their applications. TECNO is a solvent- and water-resistant film. The film has to be transferred following the Indirect/Direct method with our FOTECOAT screen emulsions 1833 SOLO (water-resistant) or 1850 SOLO (solvent resistant). The product is available in thicknesses from 100 to 700 microns. Fields of application: peelable solder masks, SMD / SMT, printing of gaskets, anti-slip apparel, Braille letters, application of ceramic powder on tiles, 3D-printing on textiles, glass and ceramics.

FOTECOAT 1833 SOLO
FOTECOAT 1850 SOLO

Both photopolymer emulsions can be used for to create 3-D (thick-film) stencils by cast application or as transfer emulsions for FOTECAP TECNO films. FOTECOAT 1833 SOLO is water-resistant, FOTECOAT 1850 SOLO is solvent resistant. We recommend using colored mesh.

MASKING FILMS
INDIRECT FILMS
COMPUTER-TO-FILM
POLYESTER FOILS

3.6

With this special range of products SPT offers you a truly unique selection of supplies for screen printers. The main features and fields of application of the individual product groups are explained in the following tables. Detailed information for each product is available on request, including how-to-use video sequences on YOUTUBE®.

FOTECMASK 7381 C 7581 C

FOTECMASK is a red masking film, available either in cut sheets or rolls:

Item	Carrier	Description	Colour
7381 C	80 micron	super-cut quality, good adhesion, excellent sticking-back properties, thin carrier	red
7581 C	125 micron	super-cut quality, good adhesion, excellent sticking-back properties, thicker carrier	red

FOTECFILM 5020 RUBIN

Still unique in performance and stencil quality precision – hence still a state of the art product in stencil making: our FOTECFILM assortment of Indirect Gelatine – based photo stencil films.
Table of the product:

Item	Colour	Exposure 3,5 Kw/100cm	Exposure Latitude	Development by using
5020	medium red	in seconds 10/20/30/40/50	15-40 sec.	FOTOCHEM 2200 or H^2O^2 1,5%

FOTECHEM 2200 A+B

Powder developer for Indirect Gelatine – based photo stencil films. A+B powder mixed together provide 4 litres of developing solution. Please consult our technical data sheet for further details on use of the product.

FOTECFOIL 7135 FOTECFOIL 7165 FOTECFOIL 7800

A unique range of products for Computer-to-Film application: using an ink-jet printer with FOTECFOIL materials for the production of film positives and negatives provide perfect film imaging. Main feature of all FOTECFOIL products is their dimensional stability.
All products are humidity resistant, perfectly compatible with our special CtF screen emulsions, show excellent ink absorption as well as high resolution and colour density. UV and halftone density depend on settings, the ink-jet inks used and the measuring standard of the Densitometer.

Item	Carrier	Density of coating	Reverse side
7135	clear Polyester foil 0,138 mm carrier thickness	0,029 mm	antistatic gliding surface
7165	clear Polyester foil 0,168 mm carrier thickness	0,029 mm	antistatic gliding surface
7800	clear Polyester foil 0,100 mm carrier thickness	0,026 mm	

All values have a production tolerance of ± 5 % .

SCREEN FILLERS

4

Screen fillers are exactly what the name says: they serve as block-outs (filling) of open areas in the screen and/or as touch-up products on all types of mesh. FOTECHEM screen fillers are ready-to-use, but they can be diluted with water, if necessary. The difference between the products is mainly related to viscosity and colour. As with screen emulsions there is a difference between solvent resistant and water-resistant screen fillers.

FOTECHEM 2010
FOTECHEM 2010 BL
FOTECHEM 2060 B
FOTECHEM 2060 G
FOTECHEM 2070

These products are all water-soluble and non-flammable, air-drying and solvent resistant. They can be easily decoated with water, only. All products are ready-to-use. Their colour and viscosity differs, as mentioned hereafter. For small touch-up work we recommend a post-dilution with water.

FOTECHEM 2010:	high viscosity; for coarser mesh types or steel mesh, to cover in one single work process.	colour: green
FOTECHEM 2010 BL:	as FOTECHEM 2010	colour: blue
FOTECHEM 2060 B:	medium viscosity	colour: blue
FOTECHEM 2060 G:	medium viscosity	colour: green
FOTECHEM 2070:	higher viscosity	colour: red

FOTECHEM 2076 WR

Water-resistant screen filler to use in the ceramic or textile printing industry, where aqueous printing media are used. Air-drying with a slightly lower than standard viscosity. It can be used in combination with water-based inks or adhesives and water-resistant stencil materials. The product has a very low resistance to solvents.
Decoating by using high pressure units is possible.
Colour: blue.

FOTECHEM 2078 WR/SR

A completely universal screenfiller for water based and solvent based printing media. The slightly grey colour ensures that no bleeding occurs.
High solid contains.

STENCIL HARDENERS

5

Stencils can be hardened after exposure and development to increase the stencil resistance. Our chemical hardeners provide permanent, but no longer reclaimable/decoatable stencils. These become fully water-resistant. Depending on the type of screen emulsion and hardener used, this post-hardening effect is either stronger or weaker. Water-resistant screen emulsions as used in the textile industry become even more resistant, while solvent resistant screen emulsions are achieving some water-resistance. Dual cure polymer emulsions might show some brittleness, if non-aqueous print media are used.

FOTECHEM 2110 Suitable for chemical hardening/catalyzing of ready-to-print stencils. The use of undiluted FOTECHEM 2110 for hardening of water resistant emulsions results in permanent, no longer reclaimable screens. If reclaimable stencils are desired, dilution of FOTECHEM 2110 with one part of water is recommended. Solvent resistant stencils becomes water resistant.

FOTECHEM 2113 Ready-to-use, water-based screen hardener. To be applied on both sides of the dry stencil surface by using a sponge; let it dry – and start printing with a very product resistant stencil. Easy and efficient! Transparent in colour.

FOTECHEM 2119 Special stencil hardener for triple cure emulsions, such as FOTECOAT 1025 or FOTECOAT 1099. In combination with these stencil products new and permanent (solvent and water-resistant stencils) are achieved.

PRESS WASH *MESH OPENERS* 6.1

The following selection is extensive – but even more extensive is our complete program of non-biodegradable screen cleaners for manual use or for application in automatic washing equipment. All our products, however, have one common base: they are in full compliance with current working safety, fire hazard and chemical regulations within the EU.

VARIOWASH 2836 Manual screen cleaner and mesh opener with mild odour. This multi-purpose solvent is developed for removing of almost all graphics, electronics and textile screen printable ink systems (solvent-, water-based and UV curing inks) and lacquers from screens, tools and squeegees. Flash point: 43°C.

VARIOWASH 2951 Manual screen cleaner with a flash point of 43°C. Excellent in removing solvent-based inks of acrylic and alkydic nature, ceramic inks, UV curing inks, ink systems used in the PCB industry, such as solder resist inks (1 and 2-component systems), UV etch resist media, etc. Versatile, fast evaporating and efficient in use.

VARIOWASH 2013 A screen cleaner with mild odour and a flash point of 62°C. The effective multi-purpose solvent blend has been developed for cleaning almost all graphics, electronics and textile screen printable ink systems (solvent- and UV curing), tools and squeegees. The well balanced formulation ensures gentle treatment of all direct/indirect emulsions and capillary films. VARIOWASH 2013 was developed for the application in wash-out basins and automatic screen washing.

VARIOWASH 2882

Sister series to the beforementioned product. This product is intented for the glass and ceramic industry and its formulation has been adapted accordingly to ensure cleaning of all ink systems used in these particular industries. Does not soften the stencil surface and thus ensures excellent stencil durablity. The product has been developed for the application in wash-out basins and automatic screen washing.

VARIOWASH 2242

Manual screen cleaner with a flash point of 43°C. Our best solution for cleaning and removing 2-component solvent-based inks (e.g. epoxy or polyurethane resin-based inks). Very efficient in the PCB and electronics industry to clean conductive inks, etc.

VARIOWASH 2686

Screen cleaner and mesh opener with mild odour and a flash point of 45°C. The ideal manual screen cleaner to remove all media commonly used in screen printing operations. Very efficient to remove Plastisol ink systems.

... and for those who can't get enough screen cleaners to try, we can offer custom blending solutions, according to your individual work process and ink system (s) in use. REMCO solvents provide a clean screen. Everytime and everywhere. Please consult our technical service department. We can carry out a workflow and process analysis in your printing operation, to propose the best solution for your individual needs – of course free of charge.

BIODEGRADABLE SCREEN CLEANERS 6.2

Today, the usage of screen cleaners in print shops around the world (whether it's for manual screen cleaning or for the application in automatic screen cleaning equipment) still shows a vast variety of products. Unfortunately the nature of many of these products is still a hazardous one. Our manufacturers REMCO and FOTECO have launched biodegradable screen cleaners. A small selection is featured here as VARIO- and FOTECHEM products.

VARIOWASH 2940 Biodegradable screen cleaner and mesh opener with mild odour and a flash point of 43°C. The effective multi-purpose solvent mixture has been developed for removing almost all solvent-, water-based and UV curing inks and lacquers.

VARIOWASH 2790 Highly versatile product: cleans all commonly used screen printing medias. Suitable for manual use or use in automatic screen cleaning equipment. Does not contain any additives and is therefore ideal for reusing the stencils. Flash Point: 80°C

VARIOWASH 2770 Special cleaner for cleaning of Plastisol- and sublimation inks. Ideal for reusing the stencils. Suitable for manual use or use in automatic screen cleaning equipment. Flash Point: 80°C

VARIOWASH 2730 Special cleaner with mild odour and a flash point of 79°C. The effective solvent blend has been developed for removing water-based adhesives from printing pallets, printing equipment and floors.

VARIOWASH 2907 Manual screen wash to remove all commonly used inks in a screen printing operation. Very low odour. Flash Point: 65°C

VARIOCLEAN S 4306 For manual use or use in automatic screen cleaning equipment. Flash point: 102°C. The product has been developed for removing of solvent-, water-based and UV curing inks and lacquers from screens, tools and squeegees.

VARIOCLEAN S 4317 For manual use or use in semi- and fully automatic screen cleaning equipment. Flash point: 99°C. The product has been developed for removing of solvent-, water-based and especially UV curing inks and lacquers from screens, tools and squeegees.

VARIOCLEAN S 4368 Screen cleaner for manual use or use in automatic screen cleaning equipment. Very mild on stencil materials and versatile in use. Flash Point: 73°C

VARIOCLEAN S 4354 For cleaning of Plastisol- and sublimation inks. Also to be used as post-cleaner before decoating. Contains washing active substances for excellent flushing with water. Suitable for manual use or use in automatic screen cleaning equipment. Flash Point: 80°C

VARIOCLEAN S 4379 A water-soluble cleaner concentrate to remove Plastisol and aqueous ink systems from the screen. Very mild in odour. Contains highly active tensides for excellent ink penetration and water flushing. Should be diluted with water in a ratio of 1 part 4379 to 5 parts of tap water. Ecological and economical in its use. Flash Point: 80°C

The versatility in the application of screen printing is also shown in the product selection of our biodegradable screen cleaners. The above being our most widely used ones. Our experienced screen printing technicians according to your individual requirements will recommend the ideal product for you individually, should any of the above fail to meet your expectations.

SCREEN DECOATERS

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After all printing media are removed from the screen and the same is clean, there are two possibilities: if the same stencil is used again later, the screen is set aside and stored. If not, the stencil can now be removed and the screen is reclaimed. For this process we are offering a full range of decoating chemicals. Our decoaters are suitable for all screen emulsions, which have not been hardened chemically, as well as for capillary films, but they are not suited for Indirect Gelatine films.

VARIOSTRIP 5078
FOTECHEM 2044
These identical products are supplied as powder and are to be mixed with water to produce a ready-to-use decoating solution. This solution reclaims the screen by removing/decoating all screen emulsions, which have not been hardened chemically, as well as capillary films. Indirect Gelatine films can't be reclaimed.
The mixture is biodegradable and does not contain any active chlorine, cross-linkers or bleaching compounds. Used in a dip process in PE or PP containers, only. The ready-to-use solution is achieved by mixing 100 g powder 5078 resp. 2044 with 10 litres of water.

VARIOSTRIP 5241
Highly concentrated decoating solution suitable for manual and automatic decoating. The ready-to-use solution is achieved by mixing 1 part of 5241 with 50 up to 70 parts of water.

VARIOSTRIP 5230
This is the most concentrated decoater of our product range. The ready-to-use solution is achieved by mixing 1 part of 5230 with 130 – 150 parts of water and is equally suitable for manual and automatic decoating.

VARIOSTRIP 5228
A water-soluble decoating concentrate developed for manual and automatic decoating. The ready-to-use solution is achieved by mixing 1 part of 5228 with 25 – 30 parts of water.

VARIOSTRIP 5250
Low-foaming decoating concentrate for manual and automatic application. The ready-to-use decoating solution is achieved by mixing with water in a ratio of 1 : 50.

FOTECHEM 2004
A special liquid decoater for manual use, only. This product is already supplied as a ready-to-use product. FOTECHEM 2004 is especially suitable for smaller screen printing operations, where the mixing of decoater concentrates with water or preparing a solution with powder is not possible.

FOTECHEM 2005
A FOTECO – specialty: a ready-to-use decoating gel. 2005 is available in blue or white colour. The product is applied with coating trough, by brush or by using our special application tool VARIOPAD.

FOTECHEM 2042/S
A water-soluble decoating concentrate for manual decoating. The ready-to-use solution is achieved by mixing 1 part of 2042/S with 30 parts of water.

COMBINED SCREEN-CLEANING AND DECOATING CHEMISTRY

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Screen cleaning, decoating and degreasing – all in one work process. For this new chemistry, also known as the 3 in 1 or All-in-One system, SPT offers various options described hereafter. We generally recommend, however, that our application experts as to the use of this technology properly advise the user. This includes a system and process analysis of the individual printing operation. There are various equipment options for All-in-One chemistry: manual systems, semi-automatic or even automatic systems are avaialbe on the market.

VARIOCLEAN A 4523
VARIOSTRIP A 5555

Combined All-in-One chemistry for use in automatic equipment. The basic mixture in the equipment comprises 10 parts of VARIOCLEAN A 4523 cleaner concentrate, 10 parts of water and 1 part of VARIOSTRIP M 5555 decoater concentrate. First add 10 parts of VARIOCLEAN M 4523 and 10 parts of tap water and then add 1 part of VARIOSTRIP M 5555 decoater concentrate. The stirring mechanism of the equipment will then stir this mixture. After this the VARIOCLEAN A mixture can be used for removing of all common screen printing inks, emulsions and capillary films. At the same time the degreasing chemicals being part of the formula degrease the screen. Please see our detailed process description for mixing and using combined All-in-One chemistry.

FOTECHEM 2048/S CLEANMIX
FOTECHEM 2051 (CLEANMIX)

CLEANMIX from FOTECO – the All-in-One Cleaning and decoating solution for manual use. The recommended mixture is 10 parts of FOTECHEM 2051 (CLEANMIX) cleaner concentrate, 10 parts of water and 1 part of FOTECHEM 2048/S CLEANMIX. Prepare the mixture in a PE/PP container or drum (no PVC!) and stir well. After this the FOTECO CLEANMIX is ready-to-use. FOTECO CLEANMIX removes all common screen printing inks, emulsions and capillary films. At the same time the degreasing chemicals being part of the formula degrease the screen.

All-in-One chemistry saves time and money – and is a very ecolocical way to clean and decoat screens. The consumption of cleaners and decoating chemicals is significantly reduced. But: a prior analysis of the individual workflow process is a must. Consult SPT's technicains for a free-of-charge consultation to see if your operation can change to All-in-One chemistry.

CHEMICALS TO AVOID AND REMOVE SCREEN HAZES

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The hazes or shadows in the mesh after decoating the stencil materials are predominantely caused by ink – as well as emulsion residues. They can cause a chemical reaction, resulting in particles surrounding the polyester thread and producing the haze effect. A manual process using specialty chemicals, so-called haze removers, generally remove such screen hazes. To avoid screen hazes we recommend special screen cleaner formulas.

VARIOHAZE 8068
FOTECHEM 2080

VARIOHAZE 8068 / FOTECHEM 2080 is a highly active and solvent-free cleaning paste, which contains mild etching alkalines and biodegradable tensides. This paste is a perfect medium to remove ink and screen emulsion stains (hazes) on all types of mesh. At the same time the paste degreases the mesh and therefore serves as a mesh regenerator. The product also helps to avoid a deterioration of the print quality and avoids adhesion problems of subsequent stencil re-coating.

VARIOHAZE 8105
FOTECHEM 2091

VARIOHAZE 8105 / FOTECHEM 2091 is a highly reactive haze removing fluid with alkaline reaction. The oxidizing component is active chlorine (hypochlorit). The fluid viscosity of the product assures prefect mesh bridging and wetting. The screen has to remain still at room temperature until the product is completely dry and crystalline particles appear. This happens best by storing the treated screen over night at a temperature of max. 25°C.

VARIOHAZE 8902
FOTECHEM 2089

VARIOHAZE 8902 / FOTECHEM 2089 is a highly reactive haze removing gel with a strong alkaline reaction. Due to its alkaline content the product also serves as a perfect screen degreaser. The gel is applied with a coating trough, preferable from both sides of the completely dried screen, to produce a thin and even layer of haze remover. Following a reaction time act of maximum 5 – 10 minutes at room temperature rinse the screen from bottom to the top with high pressure water.

VARIOHAZE 8905
FOTECHEM 80905

VARIOHAZE 8905 removing gel has similar characteristics to VARIOHAZE 8902 and is used in the same way. Please follow the instructions for use in the technical data sheet.

FOTECHEM 2090

This slowly evaporting and ready-to-use screen cleaning medium developed by FOTECO helps to avoid screen hazes. The biodegradable product is used as a post-cleaner after the screen is reclaimed and prior hazes are removed.

VARIOCLEAN S 4306

Screen cleaner with dual function: this slowly evaporting, biodegradable and ready-to-use screen cleaner developed by REMCO helps to avoid screen hazes. The product is also suitable to clean the screen completely during and after printing and is used as a post-cleaner after the screen is reclaimed and prior hazes are removed. Additionally 4306 is an activator of VARIOHAZE 8105. After complete drying 4306 is applied with trough, brush or pad. After the reaction time flush the screen with high pressure water.

USEFUL ACCESSORIES 10

The limited choice of really useful assessories for the application and use of screen chemicals has motivated SPT to look for a good choice of such useful accessories and equipment. We are proud to present our selected products on this sheet.

FOTECO Speed Tape 40 mm wide and 100 meter long, semi-transparent screen tape, allowing a trough – exposure of the stencil. The FOTECO Speed Tape with its 25 micron thickness is used to repair screens and to protect the stencil side of the screen.

FOTECO Brush 28 cm long brush with wooden handle and metal clamp and stiff, rounded nylon bristles. It can be used for all screen chemicals, including decoating chemicals and haze removers.

VARIOSCOOP A An aluminum coating trough for manual coating with two different coating lips. Available in any desired length starting from 15 cm up to 3 m max. Two end caps are supplied as standard when ordering cut-to-sizes.

VARIOSCOOP S Stainless steel coating trough. For emulsion coating and application of decoating- and haze remover gels. Thickness 1 mm, available lengths: 200 mm, 330 mm, 450 mm, 600 mm, 800 mm and 1.000 mm.

VARIOSPRAY DP1 This development gun provides best possible stencil development and thus a perfect stencil and printing shoulder. The highly efficient three nozzle system helps to save fresh water.

VARIOSPRAY - W
VARIOSPRAY - S Spray bottle for water-based media (W) or solvent-based media (S). This spray bottle can be used upside down and has a solvent resitant spray nozzle.

VARIOPAD XL Cleaning-Pad Scouring-pad for gentle and economical use of chemicals for screen cleaning, degreasing, stencil removal and all-in-one cleaning solutions.

VARIOPAD XL Anti-Ghost-Pad Special abrader-pad made of fine-pored melamine resin foam with a slightly abrasive effect for removing stubborn ghost images in screen printing. Application with VARIOPAD holder XL.

DRAINBAG Filter bag for flocculated water-based inkmedia.

SEDIMENTATION DRUM Special sedimentation plastic drum with two exit faucets for efficient sedimentation and decantation of non-water-based ink systems.

PLEASE NOTE REVERSE SIDE ->>

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10 *USEFUL* ACCESSORIES

VARIOPLUS 4095 This is a special additive accellarating the sedimentation of ink contaminated screen cleaners. Suitable for solvent-based and UV curing inks as well as Plastisol inks and ceramic ink systems.

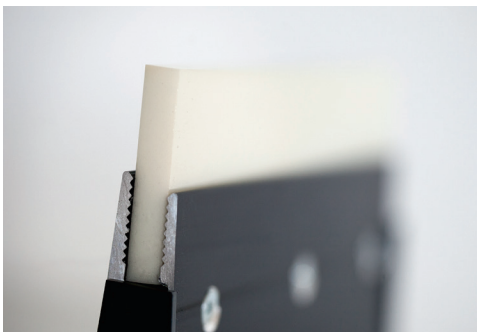
AQUAFLOC 9092 Powder additive to flocculate / coagulate contaminated ink and cleaner residues of water-based screen printing media and water-containg screen cleaners.

WASHING BRUSH with short handle, soft, green Ergonomically designed short handled churn brush with split bristles. The bristles of this brush enable it to be used for washing very sensitive areas. The bristles are designed to retain water and chemicals when it is dipped into a bucket of chemical solution and washing. Bristle length 53 mm.

SAATI Step 21 scale This all purpose precision exposure guide can be used on all stencil types to determine and standardize proper exposure accurately and quickly.

SAATI Exposure and Resolution test film Test film, with various dot shapes and various dot sizes (L/cm). For printing of test stencils. Irreplaceable tool for internal standardization.

ALUMINUM SQUEEGEE HOLDER Black anodized aluminum profiles.
Available size: 3.050 mm
Delivered with set of 100 screws and one set of end caps.
Also available as finished handles with different length from 100 mm up to 1.000 mm.



EQUIPMENT AND ACCESSORIES FROM KASI

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The Kasi product range was developed by our Slovakian supplier KASI a.s. and also produced. We offer you equipment and accessories for stencil preparation, stencil development, wash-out- and drying facilities as well as for cleaning and decoating. The quality of these Slovakian KASI products is very popular and proven with our customers over years.

KASI UB Wash out booth
KASI UB 65
KASI UB 90
KASI UB 125
KASI UB 165

High densitiy polypropylene wash out basin. For economical and working safe circulation use of low smell and VARIOWASH and VARIOCLEAN S screen cleaner and VARIO-CLEAN A All-in-one chemistry with flash point above 55°C. **Available sizes for max. frame dimensions:** 620 x 500 mm – 900 x 700 mm – 1.200 x 1.000 mm – 1.500 x 1.150 mm. Working- and environmental safe screen cleaning by brush or cleaning pad with lowest chemical consumption after screen surface wipe-off with squeegee blade.

Wash out booth with tank, pump, chemical-resistant hose and cleaning brush head for safe and efficient use of the low odor and biodegradable VARIOWASH and VARIOCLEAN S cleaner with a flashpoint of > 55°C , as well as for use of of VARIOCLEAN A All-in-One chemistry. **Washing chamber max. size:** 1.000 x 1.200 mm. Made of high density polypropylene. Wall thickness 10 mm. Tank drum with 50 L or 100 L content, conic bottom and exit faucet to decant muddy (sediment) ink solid and emulsion residues.

Booth holding frame made of stainless steel. PPH floor pan, **size** 1.700 x 1.300 x 30 mm with stainless steel grid, **size** 1.290 x 400 mm. **Pump:** 230 V/50 Hz/1,9 A/180 W – non explosion-proof. – CE conformity.

Dip Tank for stencil decoating and pre-development of exposed stencils

Tank and lid made of chemical and impact resistant PPH. Stainless steel made stabilisation frame. Optional with air injection for air bubble formation and mechanical stepping up of the development or decoating process. **Standard external dimension:** Width 725 mm, Depth 400 mm, Height 665 mm **Max. content:** approx. 150 liters. Further sizes on request.

Sedimentation Drum

Available sizes: 200 L, 100 L, 50 L. Recycling of ink contaminated VARIOWASH and VARIOCLEAN S screen cleaner with addition of 1 – 2% of VARIOPLUS 4095 Sedimentation Additive.

After overnight or weekend sedimentation, the purified solvent phase can be drained through the first faucet of the sedimentation drum and re-used after blending 1:1 with fresh VARIOWASH or VARIOCLEAN S cleaner.

After this, the pigment sludge (approx. 20% by volume) can be drained through the second faucet at the bottom of the sedimentation drum.

SERITEC® SQUEEGEE BLADES 12

The SERITEC® range of squeegees was developed based on extensive experience by TECNO S.r.L., the leading Italian producer of squeegee blades. The SERITEC® range offers a wide selection of squeegee blades made of Polyurethane material, suitable for all applications in the screen printing industry. The versions distributed by SPT – Standard, HR, UV, Antistatic and TS – show outstanding abrasion- and solvent resistance and are suitable for all ink types used in screen printing. The quality of all SERITEC® squeegees was successfully approved by screen printers in different printing segments. The excellent customer feedback for all SERITEC® products confirm the already positive results we obtained in lab testing.

Dimensions and Hardness

SERITEC® Squeegees are available in the following dimensions:
Hardness (SH): from 50 Shore A to 95 Shore A
Length: 3660 mm or 3050 mm
Width: from 20 mm up to 100 mm
Thickness: from 4 mm up to 10 mm
Special Squeegees with square profiles: 9 x 9 mm, 9.5 x 9.5 mm and 10 x 10 mm

Colours and Hardness

SERITEC® Squeegees are usually produced in the international standard colours, defining the degree of hardness optically. Special colours are available on request.

65 SH | 75 SH | 85 SH | 60, 70, 80, 90, 95 SH

Dual- and Triple-Layer Squeegees

SERITEC® dual- and triple-layer squeegees have a rigid inner core and a soft print edge. These squeegee types ensure constant squeegee pressure and provide a high print quality, even if the squeegee is very soft. Triple-layer squeegees produce excellent print results, especially in automatic printing. The rigid inner core of 90 SH stabilizes the squeegee stroke, even in the 65/90/65 SH hardness combination.

Available Hardness Combinations

65-90-65 SH | 75-90-75 SH | 85-90-85 SH | 70-90-70 SH

Profiles

Our squeegees are available in the following standard profiles:

P0 | P1 | P2 | P3 | P4 | P5 | P6

Range of Products

Besides the standard range we can also produce special products:

SERITEC® STANDARD Provides good resistance when using water-based and solvent-based screen printing inks.

SERITEC® HR Provides good abrasion resistance when printing on glass, on CDs and printing of credit cards.

SERITEC® UV Provides good resistance when printing with UV-based screen printing inks.

SERITEC® ANTISTATIC Best suited for highest printing precision, even when used at very fast printing speeds.

SERITEC® TS Our squeegee material for highest quality requirements, when used in automatic screen printing equipment.

SERITEC® PL PL stands for Plus – our newest squeegee. It combines the properties of TS, UV and Antistatic squeegee.