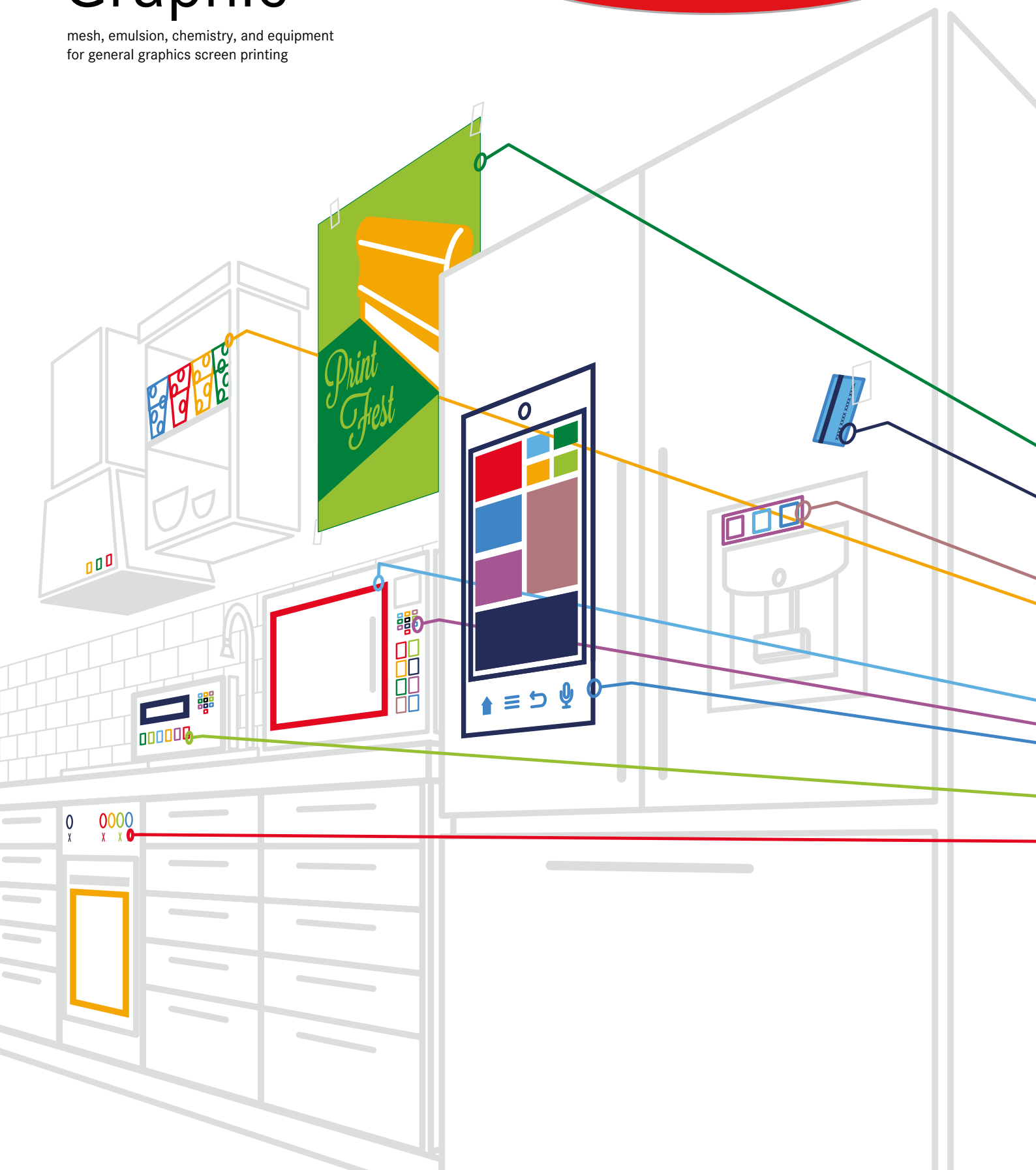# Industrial Graphic

mesh, emulsion, chemistry, and equipment
for general graphics screen printing

screen
TEC
PRINT ESSENTIALS LTD

Print Fest

SAATI-TEC

Screentec Print Essentials Ltd are committed to supporting our customers needs providing products and services of the highest standard.

We have carefully chosen our supply partners to cover the three main printing segments industrial / textile and glass and after over 20 years we have developed a product range to suit the screenprinting industry.

We offer full back up from our Staffordshire factory and a nationwide based technical support team.

Screentec offers in-house full colour matching and mixing service covering waterbased / solvent / UV / LEDUV, Mixing to Pantone / RAL and customer specific swatches.

A full range of Nazdar, Epta and Marabu screen inks are also available.

Screen Making Service includes frame manufacture in wood and aluminium, large stretching service, stencil making using conventional and LED systems and artwork.

Index

Hi-R Mesh

Premium Quality High-Tension, Low-Elongation Mesh With Surface Modification

SAATI HI-R is a high-modulus, low-elongation monofilament polyester screen printing fabric with a proprietary surface treatment ideal for all traditional applications.

KEY CHARACTERISTICS
- High tension, low elongation, optimally performing monofilament polyester
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Shorter exposure times, due to increased stencil adhesion.
- Holds finer detail with no compromise in stencil durability (halftones, fine lines etc.)

BENEFITS
- Applied to fabrics in widths up to 120"
- Safe under exposure with all emulsion/film types: Diazo, Dual Cure, and Photopolymer
- Excellent for use with abrasive printing conditions, inks and pastes.

BENEFITS OF SURFACE TREATMENT
- Improved adhesion characteristics of small halftone
- dots and fine lines
- Even and consistent surface characteristics, enhanced for extreme durability
- Excellent ink release properties
- Ready-to-use, the degreasing process can be eliminated

Mesh Count		Type Of Weave	Thread Diameter	Mesh Opening	Overall Fabric Thickness	Open Area	Theoretical Ink Deposit		Max. Recom. Tension	Specific Cross Section
per inch	per cm	TW or PW	microns	microns	microns	%	cm³/m²	in./sq. yd.	N/cm	SCS mm²/cm
86	34	PW	100	185	173	41	71	3.64	35-40	0.267
110	43	PW	80	150	132	43	57	2.88	35-37	0.216
125	49	PW	70	130	116	40	46	2.28	30-34	0.188
140	55	PW	64	120	105	41	43	2.2	26-31	0.176
158	62	PW	64	90	106	32	34	1.66	30-34	0.199
180	71	PW	55	80	91	33	30	1.53	25-30	0.168
196	77	PW	48	78	80	36	29	1.48	24-26	0.139
196	77	PW	55	70	90	28	25	1.28	27-32	0.182
230	90	PW	40	68	62	38	24	1.23	20-24	0.113
230	90	PW	48	55	81	27	22	1.08	27-29	0.162
255	100	PW	40	55	64	31	20	1.02	26-28	0.125
255	100	PW	48	40	81	16	13	0.66	30-34	0.181
280	110	PW	34	53	56	35	20	1.02	22-24	0.099
280	110	PW	40	47	69	26	18	0.92	25-30	0.138
305	120	PW	31	53	48	40	19	0.97	21-24	0.09
305	120	PW	34	45	54	29	16	0.82	24-26	0.108
305	120	PW	40	38	67	20	13	0.66	27-32	0.15
330	130	PW	34	39	55	26	14	0.71	24-27	0.118
355	140	PW	31	38	48	28	13	0.66	20-22	0.105
355	140	PW	34	29	56	16	9	0.46	23-26	0.127
355	140	TW	34	32	60	20	12	0.61	23-26	0.127
380	150	PW	31	29	49	20	10	0.51	22-24	0.113
380	150	PW	34	25	56	13	7	0.35	25-27	0.136
380	150	TW	34	28	61	17	10	0.51	25-27	0.136
420	165	PW	27	30	46	25	12	0.61	17-21	0.094
420	165	PW	31	25	49	17	8	0.41	24-26	0.125
460	180	PW	27	25	43	20	8	0.41	18-22	0.103

SAATI-TEC

SAATI HiLo Mesh

Extreme Low Elongation Mesh For High-End Electronics Printing

SAATI HiLo is a super high modulus monofilament polyester mesh. It was developed specially for tight tolerance printing to fabricate high tech products, including touch screen panels, solar cells, and membrane switches.

SAATI uses a special fiber whose polymeric structure gives extraordinary physical & mechanical properties to the product:
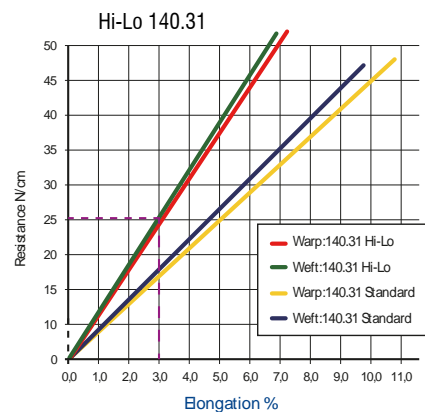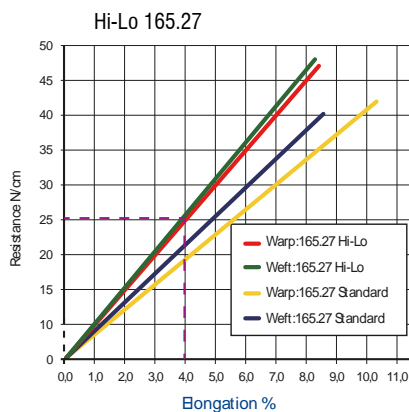
KEY CHARACTERISTICS
- Super high modulus
- Extremely low and balanced elongation between warp and weft
- Low relaxation
- Excellent physical & mechanical behavior
- Long lasting vacuum plasma treatment surface modifications
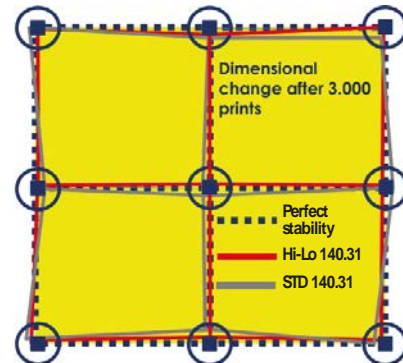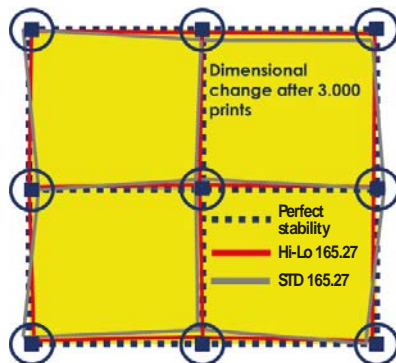- Strict tolerance control

BENEFITS
- Higher dimensional stability
- Lower tension loss after stretching
- Superior adhesion due to vacuum plasma treatment
- Printing quality consistent during all production run
- Ready to use

ELONGATION STATISTICS

Hi-Lo 165.27

- Warp:165.27 Hi-Lo
- Weft:165.27 Hi-Lo
- Warp:165.27 Standard
- Weft:165.27 Standard

Hi-Lo 140.31

- Warp:140.31 Hi-Lo
- Weft:140.31 Hi-Lo
- Warp:140.31 Standard
- Weft:140.31 Standard

1) The extremely low and balanced elongation between warp and weft grants a higher dimensional stability. The Hi-Lo warp & weft overlapping is almost perfect. At 25N tension level the Hi-Lo 140.31 elongation percentage is around 3%, whereas the Hi-Lo 165.27 is around 4%.

DIMENSIONAL STABILITY

Dimensional change after 3.000 prints

- Perfect stability
- Hi-Lo 165.27
- STD 165.27

Dimensional change after 3.000 prints
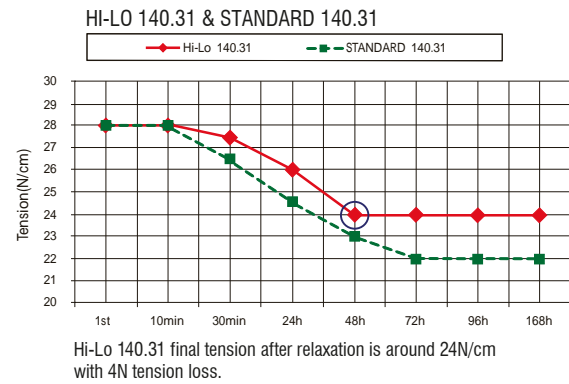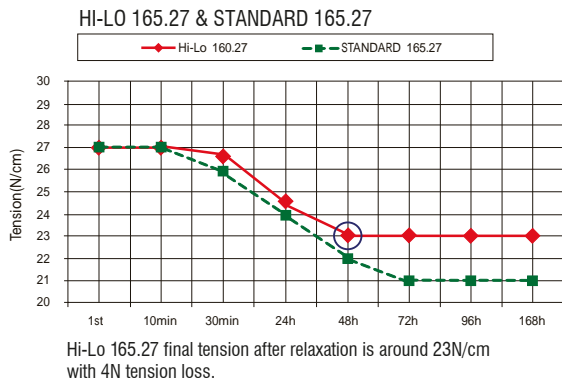
- Perfect stability
- Hi-Lo 140.31
- STD 140.31

2) The extremely low mesh relaxation, which guarantees:
- Low tension loss after stretching.
- Mesh ready to use in less time, as it can be brought up to the required tension quicker.
- Printing Quality consistency and improved ink flow during all production run.

SAATI-TEC

SAATI HiLo Mesh

Extreme Low Elongation Mesh For High-End Electronics Printing

TENSION LOSS

HI-LO 165.27 & STANDARD 165.27

Hi-Lo 165.27 final tension after relaxation is around 23N/cm with 4N tension loss.

HI-LO 140.31 & STANDARD 140.31

Hi-Lo 140.31 final tension after relaxation is around 24N/cm with 4N tension loss.

3) The exclusive plasma treatment is able to modify the mesh surface. As a result, the mesh's hydrophilic behaviour eases the emulsion adhesion on its surface.
Advantages:
• A longer printing life of the stencil and a higher printing quality in terms of resolution and definition.
• The degreasing process is no longer needed: better manufacturing efficiency and lower costs.

TECHNICAL DATA

Saatilene Hi-Lo is our premium product line and represents the Saati specialty for the TP market.
The Hi-Lo product range is made up by Hi-Lo 165.27, Hi-Lo 150.27, Hi-Lo 150.33, Hi-Lo 140.31 and Hi-Lo 120.34.

Our Key product in the TP market is the Hi-Lo 165.27.

Article	Mesh count	Mesh count	Nominal thread diameter	Mesh opening	Open Area	Fabric thickness	Theoretical ink volume	Specific cross-section	Typical tension after relaxation
	n°/cm	n°/inch	μm	μm	%	μm	cm³/m²	mm²/cm	N/cm
PE AM 120.34 PW	120	305	34	45	29	54	16	0,109	23
PE AM 140.31 PW	140	356	31	35	25	45	11	0,106	24
PE AM 150.27 PW	150	380	27	36	29	42	12	0,086	21
PE AM 150.33 PW	150	380	33	25	14	50	7	0,128	24
PE AM 165.27 PW	165	420	27	29	23	42	10	0,094	23

The above data are average values measured on piece-good in relaxed state, manufactured with yarns of a perfect nominal diameter (cfr. international standards), under normal hygrometric conditions (20°C=68°F, 65% relative humidity). They are subject to normal variations up to 7% if conditions vary from those stated above. The listed technical specifications, exception made for the thread diameter indicated with its nominal value, are referred to the arithmetic mean value of production samples and are subject to change, in accordance with our policy of continuously improving our products. PW: Plain Weave (1:1).

SAATI Screen Adhesives

Adhesives for Screen Production and Securing Media On-Press

ULTRAFIX is SAATI's product line for screen printing adhesives. They attach mesh to frame with durable bonds and the highest resistance against screen cleaners and an outstanding adhesion on all different screen frames: both wood and metal.

ULTRAFIX SB PLUS SERIES
Fast-curing, 2-part, urethane-based adhesive with superior resistance to aggressive solvents

ULTRAFIX SB1 PLUS
• Mounts screen mesh onto aluminium, steel, iron, plastic-coated and wood frames
• Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
• Superior resistance to solvents and heat
• Good performances on automatic cleaning machines with solvent
• Ultrafix SB1 Plus is clear, high viscosity adhesive for all fabrics mesh-counts.

ULTRAFIX SB2 PLUS
• Mounts screen mesh onto aluminium, steel, iron, plastic-coated and wood frames
• Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
• Superior resistance to solvents, heat and automatic cleaning machine
• Ultrafix SB2 Plus is low viscosity adhesive for medium to fine fabrics mesh-counts.

ULTRAFIX SB4 PLUS
• Extraordinary initial adhesion allows to glue screen mesh also on untreated aluminium frames (sleek)
• Extraordinary initial adhesion allows screens to be removed from the stretching system only minutes after applying
• Superior resistance to solvents and heat; ideal in automatic cleaning machine
• Ultrafix SB4 Plus is low viscosity adhesive for medium to fine fabrics mesh-counts.

ULTRAFIX SB9 PLUS
• Very opaque after drying, SB9 Plus has a smooth and even surface
• Good on any frame surface and its extraordinary initial adhesion allows gluing of screen mesh on untreated aluminium frames
• Superior resistance to solvents and heat; ideal in automatic cleaning machine
• Ultrafix SB9 Plus is low viscosity adhesive for medium to fine fabrics mesh-counts
• Screentec uses this product in it's production runs.

Description	SB1 Plus	SB2 Plus	SB4 Plus	SB9 Plus
Viscosity	High	Low	Low	Low
Colour	Clear, Blue, Red	Clear, Blue, Red, Green	Green	Red
For Mesh Counts	<55	>55	>55	>55
Pot Life	60-90 min	60-90 min	90-120 min	90-120 min
Mixing Ratio	5 parts : 1 part catalyst	5 parts : 1 part catalyst	5 parts : 1 part catalyst	5 parts : 1 part catalyst
Why Choose This Product	Suitable for meshes with low mesh count. Suggested for automatic machines	For aluminum, steel, iron, plastic-coated and wood frames. Not suggested for automatic machines.	Can be used on untreated aluminum frames (sleek). Suggested for automatic machines. Slower	It does not contain Acetone

SAATI Mesh Preparation Chemicals

World Class Chemicals for Each Step Screen Cleaning

The SAATI product range comprises a full suite of products to enable screen preparation and recycling. SAATI mesh preparation products are economical, easy to use and provide consistent results with any mesh.

Our DIRECT PREP series is specially designed to clean and prepare your screen mesh surface. They improve film lamination and the coating and bonding of direct photoemulsions and minimize pinholes, resulting in optimum stencil performance and durability.

DIRECT PREP goes a step beyond conventional degreasers and actually treat the fabric surface with a wetting agent, making the screen more "wettable" than an untreated, or simply degreased screen.

Screens treated can hold an unbroken sheet of water on their surface when rinsing for completely uniform stencil adhesion. Can be used on any mesh count.

Direct Prep 1
Ready-to-use, one-step mesh abrader, wetting agent and degreaser
• Prepares new monofilament synthetic fabric
• Does not clog mesh openings
• Dyed colour ensures complete rinse from mesh
Highly recommended for use with capillary films

Direct Prep 2
Combination Degreaser/Wetting Agent
• Ready-to-use liquid wetting agent and degreaser
• Powerful detergent and degreaser in one step restores mesh after reclaiming.

Direct Prep 3
Concentrated Degreaser/Wetting Agent
• 10 to 1 concentrated liquid wetting agent and degreaser
• Concentrated formula for economy
• 100% Biodegradable.

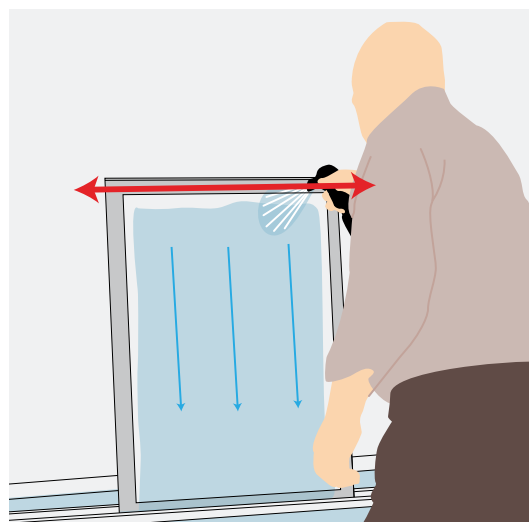| Description	Direct Prep 1	Direct Prep 2	Direct Prep 3
Viscosity	High	Low	Low
Colour	Green	Green	Brown
Mixing Ratio	Ready to use	Ready to use	10 parts : 1 part water
Why Choose This Product	Paste suitable for low mesh count.	Universal use. Degreases and cleans.	100% Biodegradable. Concentrated. Suggested for Pure Photopolymer emulsions

Correct Direct Prep Rinsing Technique
Following the application and wash-off of SAATI Direct Prep products, the final rinse technique is critical to preparing an optimal coating surface.

To correctly rinse a pretreated screen, flood it with a garden hose at the top, pointing the nozzle downward and rinse horizontally across the top of the screen, to create an unbroken cascade effect.

This technique results in a uniformly wet surface that will dry evenly and later coat evenly.

If you notice disruptions in the flow of water down the fabric then you have identified remaining contaminants on the mesh surface that must be removed before they can compromise coating quality or create fisheyes in a coated screen.

SAATI-TEC

SAATIgraf Emulsion

The World Class Range of Emulsions for All Types of Graphics Printing

SAATI's Grafic emulsion range encompasses pure photopolymer, dual-cure and diazo technologies. Grafic emulsions feature wide latitude and yield high resolution stencils with fewer pinholes. The high solids content and medium viscosity of Grafic emulsions produce low Rz stencils with good print definition on any mesh count. All Grafic emulsions are easy to reclaim, non-hazardous and totally biodegradable.

Grafic PU
Versatile photopolymer graphics emulsion for general graphics printing
- Blue pure photopolymer emulsion highly resistant to solvent
- Resistant to UV-cured, plastisol and solvent based • ink. Water resistant when post-exposed
- High solids content and medium viscosity for excellent print definition on any mesh
- Exposes 4 times faster than diazo or dual-cure emulsions
- Easy to reclaim.
Available in 1 and 5kg containers

SAATIgraf HS6 (DC200)
Fast dual-cure photopolymer screen emulsion
- purple in colour, high viscosity
- Matt finish, ideal for inkjet positives
- 38% solid content after sensitizing
- Co-solvent / water based acrylic / UV inks.
Available in 0.9 and 4.5kg containers

SaatiGraf DSS (DC101)
Very high resolution emulsion for industrial printing :- PCB / Ceramics / Bottle Printing
- Blue diazo emulsion
- Medium viscosity +25% solid content
- Semi matt surface
- Easy to reclaim.
Available in 0.9 and 4.5kg containers

SAATIgraf HU4 (DC240)
Dual-cure photopolymer screen emulsion
- Blue in colour with high contrast
- 33% solid content after sensitizer
- Sensitizer is Dir-ad sachets
- Suitable for most ink systems
- Easy to reclaim.
Available in 0.9 and 4.5kg containers

SAATIgraf HU
Dual-Cure for general industrial and display graphics
- Dual-cure emulsion resistant to UV-cured and
- solvent based inks
- Excellent print definition and resolution on any mesh
- Superior solvent resistance
- Easy to reclaim
- Can be used also on stainless steel mesh
Available in 0.9 and 4.5kg containers

SAATIgraf HSX
Dual-cure for High tech electronics and industrial printing including touch screen, solar cell, and ceramic capacitor
- Blue or red dualcure emulsion
- Dual-cure direct emulsion with very high solvent
- resistance for industrial printing
- Extremely high resolution and definition
- Designed for stainless steel and synthetic mesh
- 37% solids content
Available in 0.9 and 4.5kg containers

SAATI-TEC

SAATIgraf Capillary Film

Range of Capillary Films for Graphics Printing

Capillary Films are specially formulated emulsions on a polyethylene coated photo base paper. This allows for easy handling before and after exposure. Easy-release paper provides stencil with anti-stick surface and minimizes adhesion to glass during exposure. It also resists pick-up of flashed ink films. The film can simply be applied to a wet screen, or laminated with backing emulsion, for increased durability.

SCF Capillary Film
Fast exposing solvent and water resistant capillary film.
- Exposes 3 times faster than comparable diazo film.
- Long shelf life.
- Easy to reclaim.
- Can be used with solvent based, UV-Cured, plastisol and water based inks.
- Colour coded by thickness
- Post exposure recommended for water based inks.

Available in 16, 20, 25, 30, 40 and 50 microns

DCF Capillary Film
Capillary Film designed for use with all solvent based inks.
- Fully solvent resistant for use with all solvent based and UV-cured inks
- High resolution
- Easy to reclaim
- Colour coded by thickness

Available in 15, 20, 25, 30, 35 and 50 microns.

DCF Super Sharp Stencil Film
Representing the result of years of work to create the finest direct stencil film available. Developed to meet the needs of the industrial printing market, specifically manufacturers of touch screen displays and solar cells, as well as membrane switches and graphic overlays. This film provides wide exposure latitude with the sharpest edge definition, and boasts exceptional resistance to agressive solvents used during on-press cleaning.
- Red capillary film specially designed for the most demanding industrial printing applications
- Highly solvent resistant
- Enhanced sharpness for maximum image resolution and print definition
- Designed for use in patterning of functional materials and industrial graphics printing
- Can be used with stainless steel and synthetic mesh

Available in thickness of 15, 20, 25 and 40 microns

Thik Plus Capillary Film
Light green solvent and water resistant photopolymer film, for the production of thick stencil by the direct/indirect method. Ideal for ceramic, glass, electronic and textile applications.
- Minimal exposure time
- Fast and easy to water development
- Excellent resolution and edge definition
- Excellent flexibility and elasticity
- Can be use it with excellent stencil results also in the cold countries
- Excellent resistance to water and solvent-based and UV-cured inks
- Perfect for high density printing
- Non-hazardous and biodegradable.

Available in 100 up to 700 microns

Indirect and Inkjet Films

High Quality Films

FIVE STAR
Gelatine Indirect Photostencil Film
Five Star is a red, medium/high resolving indirect stencil film that is perfect for short run, high quality screen printing.
- Five Star is recognised world-wide as the name synonymous with consistent quality. Five Star is suitable for resolving detail downto 100 microns. Suitable for use with solvent based inks.
- Mesh range 77 to 180/cm (200 to 450/inch).
- The extremely wide processing latitude means that this product is exceptionally easy to use, whilst the combination of high resolution and definition, make the printing of quality images simplicity itself.

Available in roll widths of 104 cm and 122 cm and in a variety of lengths.

Inkjet Positive Film
A complete range of roll sizes + cut sheets to produce positives for screen printing.
Cut sheets available in A4 / A3 / A3+
Rolls available in widths of 432 / 610 / 914 / 1016 / 1118 / 1600

Laser Film
Film to produce positives with a laser printer for screen printing.
Sheets available in A4 & A3.

Masking Film
Hand cut Rubylith film. A red block out film for perfect exposure. 0.130 microns backing film.

Drafting Film
Polished/Matt Film with excellent see through qualities

Polyester Film
Clear Anti Static Montage Film for Screen Printing

SAATI Blockouts/Screen Fillers

High Quality Liquid Blockout Products to Seal Screens and Fill Pinholes

SAATI Finish Series blockouts/screen fillers offer both high performance and user friendliness. Finish blockouts contain no solvents and provide increased filling power. All have pleasant smelling formulations and are both non-hazardous and biodegradable. Finish blockouts spread smooth and uniformly for optimum drying and filling. Use to cover open mesh areas and pinholes.

Finish S1
- Red, water-based liquid blockout
- For use with solvent-based, UVcured, & plastisol ink
- Remove with water.

Finish S3
Highest viscosity Finish S product
- High viscosity version of Finish S2
- For optimum results on low mesh count screens.

FINISH SU1 A&B
Two part polyurethane screen sealer
APPLICATION
Provides protective coating for frame adhesive and permanently replaces blockout tape.
CHARACTERISTICS
- Red water-based two part polyurethane
- Easy to apply by scoop coater, brush or scraper
- Tack free immediately after drying
- One hour plus mixed pot life
- Gains 100% water, solvent and corrosive resistance after curing for 24 hours.
FEATURES/BENEFITS
- Low odour, non flammable and easy to mix & apply
- Water based formula - does not attack & weaken frame adhesive
- Can be applied onto freshly dry glue on stretching table - to accelerate full cure & bonding.

Finish S2
Increased filling power
- Blue, water-based liquid blockout
- Increased filling power and more resistance to breakdown in high-stress printing such as with cylinder presses
- For use with solvent-based, UV-cured, & plastisol ink
- Remove with water.

Finish W1(Dark)
Unique reclaimable, water-based blockout
- Resistant to water and solvent
- Unlike other water-based blockouts, offers superior water resistance simply upon drying
- Resistant to water-based, plastisol, UVcured & solvent-based ink
- Very high solids content offers increased durability
- Can be removed with emulsion reclaiming chemicals and a pressure washer.

SAATI-TEC

SAATI Pro Coat Series

Programmable Automatic Screen Coaters for Affordable Consistency and Control

The SAATI Pro Coat Series provide perfect solutions for the small to medium shops that think automatic coating is too expensive to justify. Now affordable consistent quality can be accomplished with this easy to use coater. It will be realized quickly that a consistent coated screen solves many of the day to day quality issues that make it to press. This machine is truly a plug and play workhorse.

Characteristics
- Coats screens simultaneously front and back
- Fully programmable
- Set dwell, coats and speed per side
- Carriage enclosed for safety
- Simple coating troughs attachment
- Belt driven for smooth maintenance free operation
- 110 volt, 20 amp
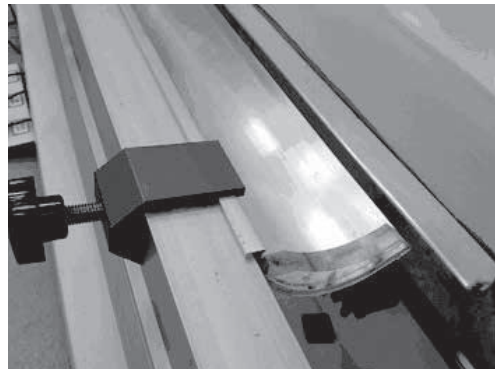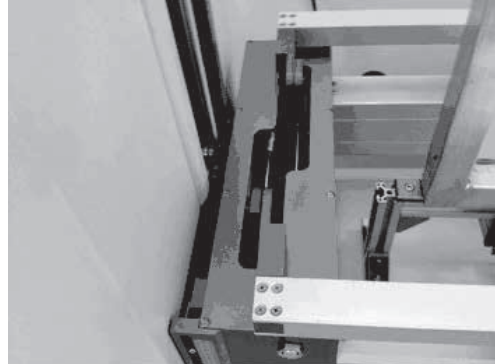- 90 psi less than 1 cfm
- 6 month warranty

Features
- Set a program and get repeatable stencils, which result in a more repeatable print
- Maximize consistency
- Easy to use touchscreen display

Benefits
- Set a program and get repeatable stencils, which result in a more repeatable print

Installation
Due the unique construction of the SAATI Pro Coat machine, it is easily installed by customer. Simply connect an airline and plug-in. Easy to operate with no assembly is required. Leasing available, please inquire.

SAATI ProCoat 25x36
Automatically coat 1 or 2 screens up to 63,5x91,5 cm

Characteristics
- Coats two screens, simultaneously front and back.
- Coats a single screen up to 107x127 cm

Features
- Motorized upper carriage.
- Easy adjustment for different frame profiles
- Foot pedal control of upper carriage and frame clamps for easy loading and unloading of screens

Size:- 208.5 x 193 x 56 cm, approximately 340 kg

SAATI ProCoat SF Container
Automatically coat 2 screens up to 40,6x61 cm

Features
- Manual upper carriage.
- Easy adjustment for different frame profiles
- Included stand for convenient working height

Benefits
- Easy use allows inexperienced operators to coat perfect screens

Size
170 x 185.5 x 51 cm on legs. Approximately 281 kg

SAATI-TEC

SAATI LTS 6080 Laser Image/Exposure Unit

High Resolution Direct Laser Image & Exposure Unit

DESCRIPTION

Self-contained, high efficiency direct laser computer to screen Image & Exposure unit, operated by PC with optional RIP.

APPLICATIONS

Designed to efficiently image and expose screens up to a maximum size of 25"x36" without a vacuum or film positives.

CHARACTERISTICS

- Facedown glass panel with enclosing lid
- 96 laser array capable of 2540, 1693, 1270, 1016, or 847 DPI
- Exposes all emulsions and stencil films
- Easy to use software, compatible with many RIP programs
- Utilizes 1-bit TIFF file format.

FEATURES/BENEFITS

- Very high resolution CtS exposure capable of reproducing the most demanding image types
- Digitally process all types of PC & Mac design files in house with no film positives
- No consumables and low power consumption for minimized costs
- 10,000+ hour lamp life and easy, low cost maintenance.

SPECIFICATIONS

- Maximum Image Size: 60x80 cm
- Overall Dimensions: 142 x 71 x 91 cm
- Weight: 400 kg.
- Compatible with 110V or 220V input
- Two Year Warranty
- CE Approved.

SAATI-TEC

SAATI ProLite 450 Exposure Lamp

Efficient Targeted Wavelength LED Exposure

DESCRIPTION
450W 405nm LED exposure lamp
APPLICATIONS
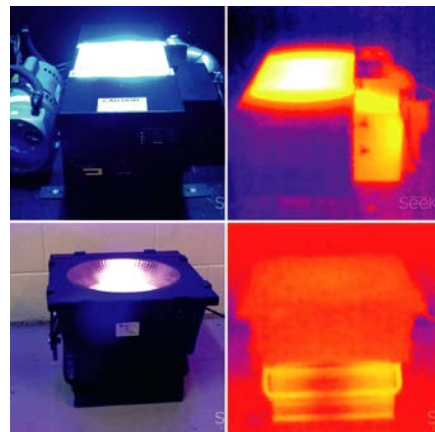Designed to efficiently expose screen printing stencils

CHARACTERISTICS
• High intensity with even illumination
• Instant start to full power
• 10,000 hour lifetime rated
• Works with all one & two part emulsions, and stencil films
• Efficient low cost replacement for expensive metal halide systems

FEATURES/BENEFITS
• Optimum wavelength for fast exposure, deep cure & wide latitude
• Runs cold, glass stays cool and no extra a/c load
• Constant light output, no photocell/filter/light integrator calibration needed, just a simple timer
• 85V-265V rated and works with any 110V outlet

RECOMMENDED USAGE
• Use at a minimum of 60 cm distance for even exposure of one 58.5x79 or 63.5x91.5 cm screen.
• Use at a minimum of 91,5" distance for even exposure of two screens 58.5x79 or 63.5x91.5 cm.

Comparison of light and heat output.
5kW metal halide (top) & LED Saati Pro-Lite 450 (bottom).

RECOMMENDED USAGE
• Use at a minimum of 60 cm distance for even exposure of one 58.5x79 or 63.5x91.5 cm screen.
• Use at a minimum of 91.5" distance for even exposure of two screens 58.5x79 or 63.5x91.5 cm.

SPECIFICATIONS
• Dimensions: 35.5x18x7.5 cm
• Weighs 4.5 kg
• Uses 110v standard wall outlet

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

When you measure quality at every stage of screen production and on press, you take control of the many variables in screen-making and printing. Most importantly, you have the means to the consistency and repeatability that will boost your screen-printing productivity and profitability. SAATI brings you the most comprehensive selection of highly accurate, yet easy-to-use instruments to monitor and confirm screen quality at each step.

As specialists in screen-making products and innovators in QC devices, we've made sure that these instruments are practical, affordably priced, durable enough for continuous use and simple to operate.

NEWMAN ST-METER® 1-E

A uniquely constructed, heavy-duty mechanical tension meter that assures durability and long term accuracy in monitoring screen tension. It is the only meter in the world with all stainless steel hardened gears, shock proof industrial grade internal gear movement and all jewelled sapphire bearings. A screen tension meter of exceptional quality, it will last longer and produce consistent readings every time. (All other mechanical meters have non-compound softer brass gears and bushing, greatly reducing their shock resistance, long-term accuracy and life.) The crystal is shatterproof and curved to avoid glare. The heavy-duty protective aluminium housing is the most durable meter made anywhere. The modular construction assures easy and inexpensive repairs, if necessary.

AQUA CHECK

The only stencil moisture meter, the TQM Aqua-Check determines when the stencil is dry enough to expose. Our exclusive TQM Aqua-Check meter detects hidden moisture instantly. It is a fast & accurate measurement that prevents you from taking chances with your stencil. The battery operated contact meter provides direct readings of the residual moisture content in coated (and dried) screens to ultimately prevent pinholes and premature stencil breakdown. If a screen is not dried thoroughly before exposure, it will not harden effectively, and is therefore vulnerable to these deficiencies. The Aqua-Check's modest cost can save you big outlays in press downtime and stencil remakes. For use on polyester and nylon screen mesh. There is no guess work. Simply hold it against the emulsion or film surface and press the "READ" button for 2 seconds.
Read the dial.
Red for trouble ahead. Orange for risky. Green for go!

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TQM™ ELECTRONIC THICKNESS GAUGE®

TQM Electronic Thickness Gauge (ETG) is the only thickness gauge that calculates the difference between the fabric and emulsion thicknesses automatically. It is the choice for the screen printer looking for a practical, compact and easy to use thickness gauge for quality control purposes. Its uses include screen mesh and stencil measurements, as well as substrate and cured ink film measurements. The ETG works on the principle of magnetic induction, and is used in conjunction with a small, hand-held test plate. The coated mesh sample is placed between the measuring probe and the test plate. The micron or mil measurement is displayed immediately. The TQM ETG unit does not normally require calibration before use. However, the unit is supplied with calibration shims to confirm instrument accuracy or to measure unusually thick or curved samples. For those requiring conformance to very tight quality controls, the TQM ETG can be ordered with an optional Certificate of Calibration to NIST standards.

FEATURES
- Digital accuracy of ±1%
- Also measures dry ink thickness on substrate
- For use on polyester, nylon or stainless steel mesh
- Measures automatically in mils or microns
- Factory-installed, custom-fit probe system means all models are calibrated and shipped ready-to-use
- Automatic shut-off after 7 minutes of non-use
- Automatic low battery shut-off eliminates invalid readings
- Heavy-duty carrying case.

POCKET SURF III ROUGHNESS METER

The Pocket Surf III Surface Meter is a pocket-sized, battery operated roughness gauge for measuring stencil and substrate surface roughness parameters in Ra, Rmax and Rz with digital readout. The Pocket Surf III is solidly built with a durable cast aluminium housing for years of accurate surface measurements. Its digital display is conveniently located on top of the device for optimum visibility.

FEATURES
- General purpose probe with 0.0004"/10 micron radius
- Offers three traverse lengths
- Supplied with a certified reference specimen, riser plate battery and custom-fitted protective case
- Easy-to-read LCD display presents the measured roughness values in microinches or micrometers
- Out-of-range (high/low) and battery low warning signals
- Serial output for Statistical Process Control (SPC).

BENEFITS
- Save time with no more guess-work
- Very simple to use
- Provides an automatic calculation of the difference between the fabric and emulsion thicknesses.

OPTIONS
- Certificate of Calibration to NIST standards for quality control or ISO 9000 compliance programs
- Bi-yearly calibration program, based on instrument inspection
- Spare parts available: ETG base plates and ETG calibration foils.

BENEFITS
- Economically priced
- Fast and accurate; measurement produced within a half second of traversing the surface
- Provides a measurable indicator of how efficiently the print side of the stencil controls edge definition
- An acceptable Rz value assures proper gasketing of the stencil to the substrate, and controls the ink flow.

OPTIONS
- Power transformer to replace battery operation.

SAATI-TEC

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

SAATI 21-STEP SENSITIVITY GUIDE

This is the exposure guide of choice for accuracy, ease of use and all-purpose application. With the SAATI guide, there is no guesswork or complicated interpretation. A more precise tool than gelatin/density type exposure calculators, and unlike competitive products, it can be used on all stencil types and all mesh counts (other exposure guides are not compatible with pure photopolymer stencils, and do not perform as well on coarse mesh). Our 21-step guide is also much smaller (1/2" x 5 1/4"), so it can be used on all production screens. The SAATI Sensitivity Guide is a film containing a transmission type density scale with 21 steps ranging from transparent to opaque.
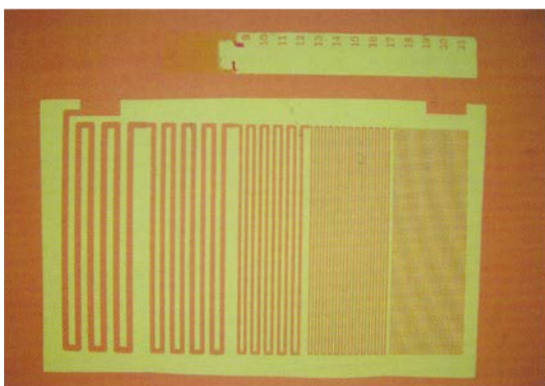
10 Seconds
Step 4
underexposed
Rx: + 2.8x (28s)

60 Seconds
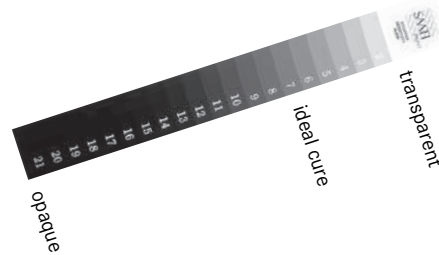Step 9
overexposed
Rx: - 0.5x (30s)

30 Seconds
Step 7
Perfect Cure

DIRECTIONS

Place the SAATI 21-Step Sensitivity Guide on the screen. Optimize your exposure so that when washing out the image, you are left with 7 solid steps (1 = zero density. 21 = solid black.)

To increase exposure by	Multiply exposure by
1 step	1.4x
2 steps	2.0x
3 steps	2.8x
4 steps	4.0x

To decrease exposure by	Multiply exposure by
1 step	0.70x
2 steps	0.50x
3 steps	0.33x
4 steps	0.25x

ADVANCED USES

When you record the correct exposure times for each of your products at different coating thicknesses, you will have a valuable tool that will save your time, product and money. If you expose several stencils for the same amount of time but find some overexposed or details falling out, this can suggest an inconsistencies with your coating thicknesses. You may find that a different step result produces better prints for a particular product you are using. The 21 step guide is useful in that you can determine the optimum result taking into account different cure levels. You can pick any value on the step guide, but for most products, 7 steps is the preferred cure level.
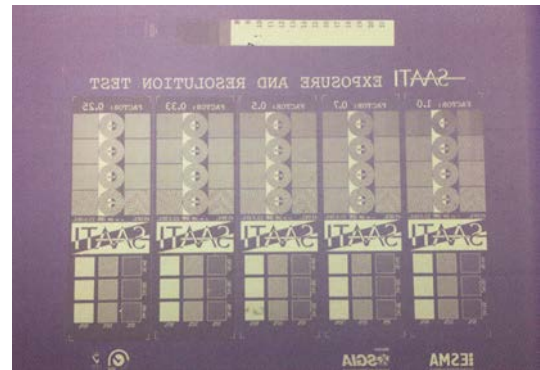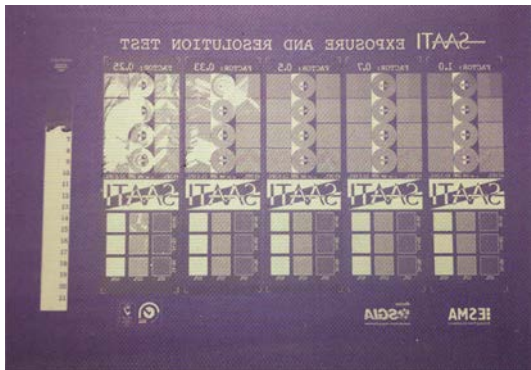
Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

SAATI EXPOSURE CALCULATOR

Optically clear litho positive film for determining the correct exposure time for any particular type of photostencil emulsions or capillary films. It contains five identical columns of fine detail graphics. Four of these are covered with a neutral density filter with a different light transmission value, in order to obtain five different exposure times from one single exposure process.

With this all-in-one film, it is very easy to identify the correct exposure time for future stencil production and it substitutes the traditional, time consuming step wedge exposure process.

ANGLE DETERMINER

The ISPS Thread Direction/Mesh Angle Gauge is a quick and easy way to reference the mesh angle on any screen, eliminating the guesswork caused by unmarked screens especially in 4-color process printing. In addition, the gauge is very helpful in diagnosing moiré issues caused by screens or films. Can be used on coated and uncoated screens, as well as film

DIRECTIONS

Use gauge by laying it directly on the screen or film. A moiré pattern appears on the tool at the angle it sees.

MESH COUNTER

SAATI's Mesh Count Determiner is a fast and easy way to verify your mesh count. It can be used on stretched and unstretched fabric, with or without a stencil.
You can accurately count the number of threads per cm within +/-1 in mesh counts ranging from 60 -180.

BENEFITS

• Save down time by eliminating mismarked frames in your inventory
• Confirm incoming frames from outside vendors
• Reduce moire by matching frames of similar thread count

SAATI-TEC

Quality Control Devices

Maximize Efficiency by Improving the Quality of Your Stencils

**VIVIDIA PORTABLE DIGITAL
HANDHELD MICROSCOPE**
The Vividia 3R-500UV Portable Handheld Digital Microscope has 3.5" LCD screen, up to 200x magnification, both white and UV LED lights, and 5MP sensors. Images and videos are saved on SD cards, and the microscope can be used on a PC via USB cable connection and included software. Vividia 3R-500UV are widely used in printing, forensic science, education, medical, manufacturing, electronics, hobby etc.

FEATURES
- Small, light, and portable
- High definition images, 5MP and clear images
- Magnification from 10x to 200x.
  With digital zoom to ~800x
- Switchable white LED lights and UV LED lights
- Simple scale can be showed on LCD screen to assist measurement
- Can be used on PC with USB connection and included measurement application software
- Take photos, record videos and store on SD card.

PRODUCT DETAILS
- Dimension: 117mm(L) x 75mm(W) x 67mm(H)
  - 4.6 x 2.9 x 2.6"
- Weight: 170g (5.75 oz) without SD Card
- Battery: Rechargeable 1800mAH lithium-ion battery
- Power Supply: DC 5V/1A $\pm$ 10%
- Battery Capacity: Approx. 4 hours for continuous working with 500 cycles.

TECHNICAL DETAILS
- Camera Type: 1/3 " color CMOS Sensor Digital Camera
- Image Resolution: 640(W x480(H), 1280x960, 1600x1200, 2048X1536, or 2560x1920(5MP)
- Image Quality: Highest Definition
- Image Format: JPEG
- Video Format: AVI with VGA or QVGA resolution
- Illumination: 4 white LED+4 UV LED with adjustable luminance and switchable
- Lens: 200x Zoom microscopy lens with High Definition
- Magnification: 10x-200x
- Digital Zoom: Continuous 4x
  (Max total magnification 800X)
- Aperture: Auto
- Sensitivity: Approximately equivalent to ISO 100, 200, 400
- LCD Monitor: 3.5" TFT LCD with 76800-dot(320x240)
- SD Card Support: Up to 32G
- Camera Functions: Shutter Snapshot, Video recording, Image and Video displaying
- Extending Shutter: Support extending shutter/ Video recording/Led exchanging
- Focus Range: 0-60mm
- PC connection: USB 1.1/2.0.

INCLUDED
- Microscope, Wired controller, Lens cover (2 pieces) & Spacer (2 pieces), USB charging cable, mini USB cable, AC/USB charging adapter, Strap, Simple scale, Software CD, SDHC card 4GB, Cleaning cloth, Instruction manual.

Up to 800x Zoom.

Unitex® Marathon
Graphic screen printing

Unitex® Marathon provides premium screen printing performance and quality at a competitive price.

It is made from MDI (Diphenylmethane Diisocyanate) technology, and is designed to give superior resistance to degradation by commonly used inks, solvents and monomers used in modern printing processes.

Benefits:
- Compatible with most UV graphic inks - delivers the vibrant colors your printing demands
- Resistant to solvents used in modern ink systems - long predictable print runs *
- Precision printing edge – pin sharp reproduction
- Excellent abrasion resistance - last print as good as the first print
- Made from high grade polyurethane - compatible with a wide range of inks and systems
- Tight manufacturing tolerances - minimal set up and re-set up times
- Consistent Durometer - keeping your colors strong and vibrant
- High degree of inspection - your last squeegee in stock won't let you down
- Trelleborg Expertise - high performance, long squeegee life and outstanding value
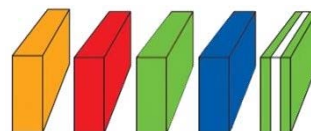
Durometer/Color Coding:
Tolerance: +/- 3˚ Shore A

65º ORANGE	70º RED	75º GREEN	80º BLUE

Softer Squeegee
More ink, richer colors
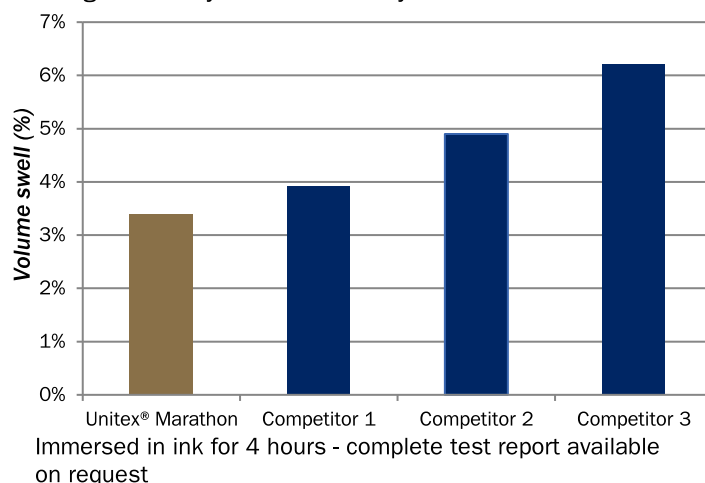
Harder Squeegee
Less ink, greater detail

Profile:
- Single Durometer
- Multi Durometer

* Squeegee Solvent Swell Test
80 Shore A Single Durometer Volume Swell Test in High Intensity White UV Ink System

Immersed in ink for 4 hours - complete test report available on request

Graphic screen printing

Typical Unitex® Marathon squeegee applications for the graphic printing include: Plastics, PVC, Decals, Vinyl, Paper, Labels.

Graphic Printing Processes:
- Automatic flat screen
- Semi-automatic screen
- Rotary screen
- Hand printing

Typical Ink Systems:
- UV
- Solvent based
- Water based

Technical Recommendations:
- For printing graphics the squeegee must have the right amount of flexing to transfer ink correctly through the screen and have good solvent/UV ink resistance. Also, it must be free from surface imperfections and irregularities, especially for high quality graphics. Typically for high resolution graphics Unitex® Marathon 75° Shore A (or harder) squeegee is used
- Many printers use Unitex® Marathon Multi Durometer squeegee in 70° or 75° Shore A when higher print pressure is required to ensure fine detail. As it is a multi-purpose squeegee, it can be used on many different types of machines – meaning a cut down on inventory
- Generally, lower hardness squeegees are used for larger mesh openings - such as Unitex® Marathon 65° Shore A

Unitex® Marathon exceeds the performance of similar squeegees on the market

Case study

Large volume screen printer.

Objectives:
The company wanted to increase quality as well as reduce excessive wastage and downtime. Before changing to Unitex® Marathon they had constant quality issues with their previous supplier, which included defects in the middle of the printing edge.

Outcome:
- Excellent quality - zero rejects
- Improvements in print quality and accuracy
- Extended print runs
- Significant reduction downtime and wastage

Comments from the Print Manager:
'After using Unitex® Marathon for over a year, we could not be happier. The quality issue has now been resolved. It performs really well with UV inks, which has allowed us to increase our print runs. We have now converted all of our screen printing squeegees to Unitex® Marathon.'

Technical Data:

Dimensions	Plain Section	Tolerance
Length	Up to 3750mm (147")	+/- 10mm
Width	15 - 50mm (0.6 - 2")	+/- 0.5mm
	50 - 100mm (2 - 4")	+/- 1mm
	100 - 610mm (4 - 24")	+/- 5mm
Thickness	Up to 12.5mm	+/- 0.4mm

Type	Hardness	Tolerance
Unitex® Marathon	60° - 90° Sh A in 5° Increments	+/- 3° Shore A

Available in different profiles, hardnesses and sizes on request.

SAATI Chemical Cleaning Processes

World Class Chemicals for Each Step Screen Cleaning

SAATI offers a comprehensive range of chemical products for screen cataloguing, reclaiming, or recycling. High performance chemicals minimize usage levels while quickly delivering screens that look and perform like new. Tailored products optimize results for cleaning every type of ink and recommended product packages ensure top performance at each stage of the reclaiming process. Screens are recycled with minimal impact to the fabric as well as the environment. Biodegradable ingredients from renewable resources such as palm, corn and soy are heavily used to minimize reliance on components derived from fossil fuels.

PRESS WASHES
For Print Maintenance and Colour Changes at Press.

Tec IR02
Press Wash or Screenwash for Solvent/Textile Inks
- Removes inks during and after print
- Fast evaporation
- Low Odour.

Remove PW7
Press Wash for Solvent and Water-Based Ink
- Removes ink during printing and prior to storage
- Fast evaporation speed
- Reduced odour
- Well-suited to colour changes on press
- Can remove adhesives from pallets after printing.

Remove PW30
Press Wash for UV-Cure & Solvent-Based Ink
- Removes ink during printing and prior to storage
- Medium evaporation speed
- Removes UV-Cure & Solvent based inks.

Remove PW36
Screen Cleaner & Mesh Opener
- Multipurpose solvent blend for removing graphics, electronics and textile inks.
- May be used in automatic machines

Description	Remove TEC IR02	Remove PW7	Remove PW30	Remove PW36
Colour	Colourless	Colourless	Colourless	Colourless
Flash Point	35°	47°	43°	43°
Use with Solvent Based Ink	Yes	Yes	Yes	Yes
Water Based Ink	Yes	Yes	No	Yes
Plastisol	Yes	Yes	Yes	Yes
UV-Curable	Yes	Yes	Yes	Yes
Why Choose This Product	Universal. Fast evaporation	Universal. Fast evaporation	Medium evaporation	Medium evaporation

SAATI Chemical Cleaning Processes

World Class Chemicals for Each Step Screen Cleaning

INK REMOVERS
Ink degradents are used to remove ink from screens prior to reclaiming. Water rinseable and drain safe.

Remove IR14
Water-Based Ink Degradent for Manual Cleaning
• Flash point 71˚C
• Pleasant scent
• Slightly viscous to improve cling to screen
• High efficiency formula
• Clean screens with water and easy rinsing formula
• Low VOC's at 289g/L.

Remove IR18
Textile Ink Degradent for Automatic Cleaning
• Effectively cleans all types of ink
• Low foam and low odour, suitable for manual and automatic cleaning
• Can be reapplied to remove ink stains
• Can be mixed with Remove ER6 and used as one-step ink and stencil remover.

Remove IR26
Textile Ink Degradent for Automatic Cleaning
• Versatile ink remover, cleans solvent based, UV-Cured and Textile inks
• Low foam and low odour, can be used for manual or automatic cleaning
• Emulsifies for easy water rinsing and avoids formation of ghost images
• High efficiency formula
• Universal performance reduces the need for multiple ink removers
• Can be re-applied after stencil removal to remove ghost images.

Remove TEC IR05
Low Cost Emulsifiable Screenwash
• Fast evaporation
• No oily residue
• Low odour

Description	Remove IR14	Remove IR18	Remove IR26
Colour	Colourless	Colourless	Colourless
Type	Manual	Auto	Auto
Flash Point	>70°	>70°	>70°
Inks Best Suited To	Plastisol, water-based and sublimatic	All	Solvent-based, UV-Cured and textile inks
Why Choose This Product	Low VOC	Cleans all type of ink. Can be mixed with ER6 as ink and stencil remover	High efficiency formula. Can be mixed with ER6 as one-step ink and stencil remover

SAATI Screen Reclaim Process

World Class Chemicals for Each Step Screen Cleaning

EMULSION REMOVERS
To Remove Diazo, Dual-Cure and Photopolymer Emulsions and Films.

ER15
Ready to use Gel Stencil Stripper.
Easy to apply by brush.
Benefits & Features
- Smooth gel that spreads easily and stays put, for maximum effectiveness
- Contains built in degreaser that cuts through any ink/solvent residue to ensure fast and efficient stencil removal.

ER25
Concentrated liquid emulsion remover
Dissolve one part ER 25 in 25 parts water.
Benefits & Features
- Removes all stencil types
- Very easy to dissolve
- Classified as non-hazardous for shipment.

Concentrated Liquid Available
TEC29 1:60 TEC30 1:80

ER2
Liquid concentrate that includes powerful built-in degreaser.
Dilute 1:35 by volume, or 1:25 by weight to provide full strength working solution for spray application.
Benefits & Features
- Very easy to dissolve and will not crystallize
- Degreaser cuts through any greasy film left after ink removal and this ensures fast and efficient stencil removal.

ER1
Powder Concentrate Emulsion Remover.
Concentrated powder that dissolves in water to produce stencil stripper solution.
Benefits & Features
- Economical
- Highly concentrated product
- Recommended to be dissolved at 1% by weight in water for full strength working solution for spray application.

HAZE REMOVERS
To Remove Stains From Mesh After Emulsion Has Been Removed.

Remove HR105
- Ready-to-use gel
- Mesh safe - can be left on screen overnight.
Directions for use
After ink and stencil removal, apply the gel with a stiff brush. Let dry - may be left overnight. The gel will not harm mesh. Rinse the screen with a high pressure wash.

Remove HR3
- Ready-to-use paste
- Is able to remove the toughest stains
- Works in minutes.
Directions for use
After ink and stencil removal, apply the paste with a stiff brush. Leave approximately 10 minutes - a longer time may weaken mesh. Rinse screen with a pressure wash.

Remove HR89
- One part, ready-to-use (gel)
- Application with a brush.
Directions for use
After ink and stencil removal, apply gel with a brush. Leave for maximum 10 minutes; a longer time may harm mesh. Rinse screen with a pressure wash.

Description	Remove HR105	Remove HR3	Remove HR89
Colour	Yellow	Clear	Grey
Timing	Overnight	10 minutes	5 minutes
Appearance	Gel	Paste	Cream
Mixing Ratio	Ready to use	Ready to use	Ready to use
Why Choose This Product	Less aggressive. Does not harm mesh	Standard Power	Aggressive Power

SAATI-TEC

SAATI Screen/Stencil Making

Quality Screens For All Applications

Screen Stretching
We offer a full in-house screen stretching service, manufacturing bespoke Aluminium and Hardwood frames with numerous section options available.
We stock Saati mesh for all applications:-
Hi-TEX - General Purpose - For Textiles & Ceramics
HIR - Standard Long Elongation Mesh
HI-DRO - For Waterbased Screen Inks
SS - Stainless Steel Mesh

Pre Coated Frame (PCF)
Our pre coated frames offer a cost effective solution for any screen printing facility.
• No need for machinery investment
• Reduced downtime
• High quality components
• Tailor made for your specific application
• Individually wrapped
• 6 months shelf life

Stencil Making
In addition to manufacturing ready meshed and pre coated screens we also offer a complete screen making service for Graphic and Textile applications.
We can output film positives from your supplied artwork and expose them onto the screen for you. Simply send the artwork file with details of the substrate you intend to use, the ink system, desired positioning and we can take care of the rest.

Film Positive
The key to a great stencil is the quality of the film positive, therefore the artwork needs to be optimized for film output.

Artwork Requirements
• The artwork file should be in CMYK profile.
• All assets of your artwork need to be 100% black.
• All text should be converted to outlines.
• Any images need to be 300dpi (minimum).
• Multi colour images should have a seperate layer for each colour.

Artwork Service
If you require artwork to be created or just have an old photocopy of your artwork, no problem, our in house artwork department can produce print ready files for you. With the latest design tools at their disposal we offer a reliable, flexible service with a quick turn around.

SAATI-TEC

SAATI Screen Reclaim Process

High Quality Accessories for Your Screen Recycling Process

BRUSHES FOR ADHESIVES
High quality natural bristle brushes designed for the application of viscous two-part polyurethane adhesives to adhere mesh to all frame types during stretching.

SCREEN PREPARATION BRUSHES
• 100% chemically resistant
• Stiff nylon bristles
• Perfect for spreading degreasers, decoaters and haze removers.

LARGE SCREEN BRUSHES
• 100% chemically resistant
• Blue handle brush has medium stiffness bristles
• Green handle brush has very soft spliced bristles
• Perfect for spreading degreasers, decoaters and haze removers on larger screens.

BRUSH PADS
100% chemically resistant synthetic screen cleaning pads with an ergonomic handle that makes them convenient for applying degreasers, decoaters and haze removers to large screens.

SAATI-TEC

Screen Making Accessories
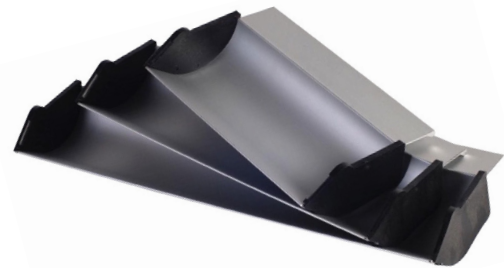
High Quality Accessories for Your Screen Making Cycle

DUAL EDGE COATING TROUGHS
- Available in lengths of 3 meters
- Coating edge profiles of 0.5 & 1.0 mm combined into one tool
- Made of high quality aluminium.

SINGLE EDGE COATER TROUGHS
- Available in lengths of 2.5 meters
- Coating profile of 1.25mm
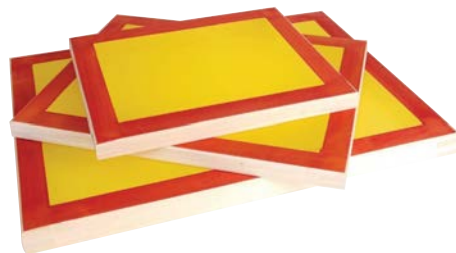- Holds a high volume of emulsion for longer coating sessions.

SQUEEGEE HANDLES
- Available in wood and aluminium
- Choice of sizes
- Can be supplied with or without blade.

FRAMES
- Aluminium and Hardwood options available
- Choice of sections and sizes
- Coated or Uncoated.

SAATI-TEC

Screen Making Accessories

High Quality Accessories for Your Screen Making Cycle

Pallet Knives
Flexible & Durable ink knife.
Will help your ink distribution be faster, cleaner and more consistent.
• Stainless Steel Blade
• Easy to clean.
Available in 4 / 6 / 8 / 10 / 12 inch Blades

Hand Cleaning Paste - TEC21
A pleasant and easy to use paste for the removal of ink, resins and adhesives
Removing harsh solvents, inks and resins is only the start of this products role. It doubles as an effective professional level barrier for your skin that is quick and easy to use.

White Pro Wipe Roll
Suitable for almost every wiping task; exceptional mechanical strength makes it perfect for manufacturing and machinery.
• Heavy duty all purpose wipe
• Virtually lint free
• Reusable
• Free from binders, chemicals and adhesives
• Sheet Size 260 x 395mm
• 157 metres per roll

Floor Stand Roll Dispenser

Bosswipe
Embossed Blue Specialist Wipe
• Strong and absorbent
• Embossed paper which helps pick up bigger spills
• Long lasting and cost effective
• Sheet Size 250 x 395mm
• 148 metres per roll

Exposure Units

PRINTASCREEN
2 & 5kw metal halide
Fully enclosed exposure units

UV LED (400nm) Exposure Units
Built to customer specified sizes, zoned areas, backlight.
Vertical, horizontal and table top versions available.

Drying Cabinets

Vertical
Built to suit available space

Horizontal
5 drawer
Mesh or floating bar shelves

Stencil Developing

Washout Booths
Zinc galvanised
Polypropylene
Illuminated
Special filters

Handtable

Manual - Standard
Robust construction
Vacuum print base
Precision registration
Fully customisable

SEMI-AUTOMATIC BENCH UNIT
- Semi-automatic parallel lift operation
- Electro pneumatic control
- Vacuum print base
- HMI controlled keypad
- Mechanical screen frame raise and lower
- High tech pneumatic print pressure
- Variable print and coat speeds
- Variable print and coat travel distances
- Component thickness up to 127mm.
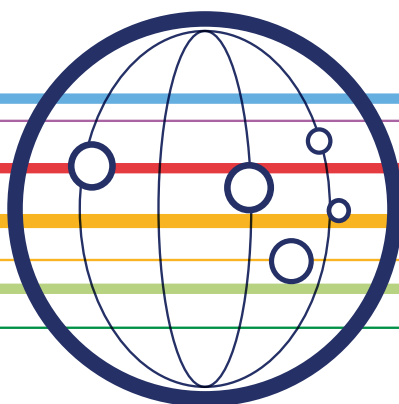

SEMI-AUTOMATIC 2000T
- Semi-automatic clamshell operation
- Patented Thieme Hi-Tech squeegee system (supplied under license)
- Front screen loading
- Movable control panel
- HMI display of operation functions
- Automatic screen "peel off" (adjustable)
- HMI programmable squeegee speed & stroke length
- Adjustable registration x – y printing base with snap off distance 0-40mm
- Start position and amount of peel-off
- Foot pedal start including pre-vacuum
- Ink reclaim systems, when squeegee travels an additional 50mm
- Every 4th. print to reclaim ink at the rear of screen
- Squeegee set up position where both the squeegee and coater remain in the up position
- HMI memory save and recall system.

PARAMATIC
- Semi, ¾ automatic or inline operation available
- Patented Thieme Hi-Tech squeegee system (supplied under licence)
- Front screen loading with pneumatic clamping
- Movable control panel
- Squeegee rotation system
- Print table register boards
- HMI display of operation functions
- HMI programmable squeegee speed & stroke length

- Adjustable printing base for snap off distance 0-70 mm start position & amount of peel off variable
- Ink reclaim systems, when the squeegee travels an additional 50 mm every 4th print to reclaim ink at the rear of the screen the squeegee and coater remain in the up position
- HMI memory save and recall system
- Manual individual movement control.

screen
TEC
PRINT ESSENTIALS LTD

378 Shelton New Road, Basford, Stoke on Trent ST4 6EW

Damien Spillane
TECHNICAL SALES MANAGER
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