

**SAATI**  
We cross-innovate

# high tech

screen printing products  
for next-gen technology

# SAATI Product Groups

## MESH

SAATI has been weaving mesh for over 85 years and channels its accumulated knowledge and capabilities into producing world class technical fabrics. SAATI screen printing mesh is used to precisely deposit and pattern functional materials for the latest electronics. SAATI Mesh is characterized by its uniform openings and stable tension after stretching. SAATI also supplies a full range of wire cloth manufactured by BOPP.

## ADHESIVES

SAATI offers a complete line of frame adhesives from two-part, urethane-based systems to one-part cyanoacrylate systems to meet the wide range of applications, frame type, mesh counts and reclamation requirements. SAATI also offers fixatives, adhesive removers and debonders.

## EMULSIONS

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

## BLOCKOUTS

SAATI Chemicals Finish 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 non-hazardous and biodegradable. Finish blockouts spread smooth and uniformly for optimum drying and filling. Use to cover open mesh areas and pinholes.

## RECLAIM CHEMISTRY

SAATI offers a complete package of reclaiming products. High performance products 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.



# SAATI Mesh



**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:

1. Higher dimensional stability
2. Extremely low mesh relaxation
3. Plasma-activated surface for enhanced stencil adhesion

## KEY CHARACTERISTICS

- Top Print Quality
- Less Tension Loss during the print run
- Consistent Performance during printing results in process reliability improvements
- Finer Line Resolution
- Improved Ink Flow
- Superior Stencil Adhesion: less stencil breakdown and printing life far longer than conventionally treated fabrics



**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

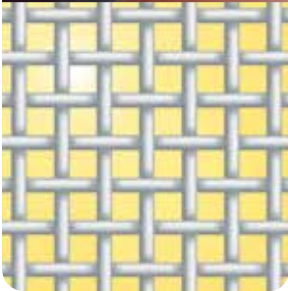
- High tension, low elongation, optimally performing monofilament polyester
- Superior stencil adhesion, resulting in less stencil breakdown on press, delivering longer print runs far beyond other conventional treated fabrics
- Shorter exposure times, due to increased stencil adhesion.
- Holds finer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

## 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

## OTHER ADVANTAGES

- 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
- Excellent performance on virgin fabric



SAATI is a direct importer of G. Bopp & Co. AG **Stainless Steel Wire Cloth**. Bopp Precision woven wire cloth is produced in Switzerland under strict ISO 9001 international certification. SD wire cloth is woven to ultra tight tolerances for the most demanding screen printing applications. Whether for electronics, solar, graphics, or ceramic applications, Bopp wire is considered of the highest quality available in the world.

# SAATI Photo Emulsion & Film



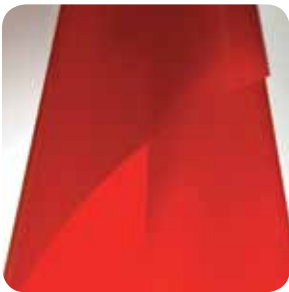
**Saatigraf HSX Series** photo-emulsion is specifically developed to enable manufacture of high quality stencils to print functional materials used during fabrication of electronic devices.

## CHARACTERISTICS

- Dual-cure emulsion
- Highly solvent resistant photoemulsion specially designed for the most demanding industrial printing applications
- Extremely high resolution and definition for optimum microreplication
- 37% solids content, medium viscosity
- Optimal performance when EOM is  $>10 \mu\text{m}$

## FEATURES/BENEFITS

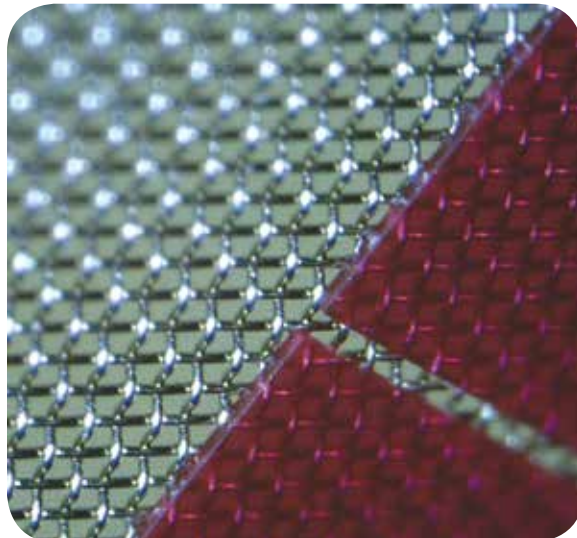
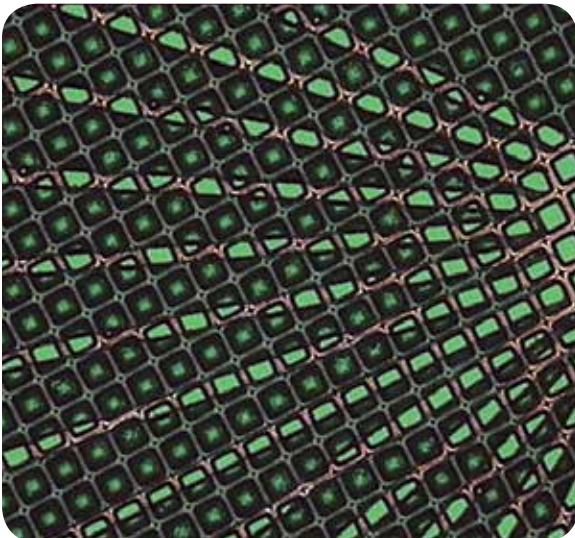
- Excellent resolution/definition combined with smooth sidewall geometry allows clean and faithful microreplication of highly detailed structures and designs
- Sub-micron dual-cure technology provides optimal mesh bridging and product is designed for use with stainless steel or polyester mesh



**DCF Super Sharp** stencil film represents the result of years of work to create the finest direct stencil film available. DCF Super Sharp was 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 aggressive solvents used during on-press cleaning.

## CHARACTERISTICS

- 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



# SAATI Chemicals



## SAATI ULTRAFIX SB5 PLUS

2-part frame adhesive

- Two-component polyurethane adhesive
- Red with medium viscosity for coarse to medium mesh counts
- Mounts screen mesh onto aluminum, steel, iron, plastic-coated and wood frames
- Can be thinned with dry acetone for use with higher mesh counts

### FEATURES/BENEFITS

- Maximum initial adhesion allows screens to be removed from the stretching system only minutes after applying
- Maximum resistance to solvents, heat and automatic cleaning machines
- Outperforms all other polyurethane adhesives in adhesion and resistance
- Superior flexibility polyurethane adhesive prevents cracking
- Quicker drying time than other urethane adhesives saves time in stretching



## SAATI DIRECT PREP 2

Prepares mesh for repeat stencil making

- Ready-to-use liquid wetting agent and degreaser
- After initial fabric roughening, use with each reuse of synthetic monofilament mesh

### FEATURES/BENEFITS

- Powerful detergent and degreaser in one step restores mesh after reclaiming
- Blue color ensures complete rinse from mesh
- Highly recommended for use with photopolymer direct emulsions
- Eliminates fisheyes and streaks in coatings
- Maximize exposure latitude and adhesion for both emulsion and capillary film stencils
- Optimizes resolution, definition and stencil life



## SAATI REMOVE IR26

Recommended to clean solvent-based, UV-cured & textile inks

- Flash Point >200°F (93°C).
- Low foam & low odor and can be used for manual or automatic cleaning
- Can be mixed with Remove ER products and used as one-step ink & stencil remover solution

### FEATURES/BENEFITS

- Emulsifies for easy water rinsing and avoids formation of ghost images
- High efficiency formula reduces product consumption
- Universal performance reduces the need for multiple ink removers
- Can be re-applied after stencil removal to reduce ghost images



## SAATI REMOVE ER2

Removes all stencil types

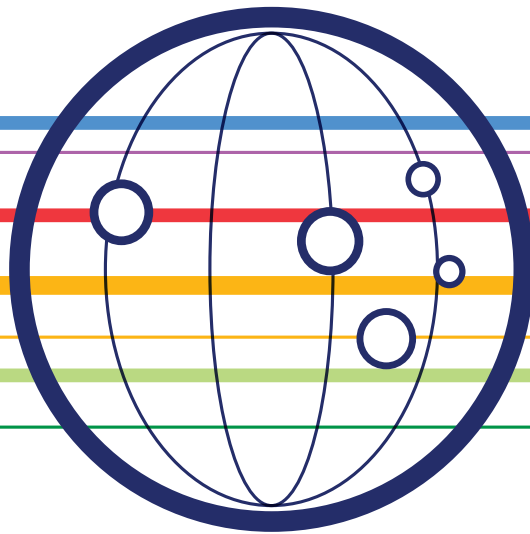
- Liquid concentrate that includes powerful built-in degreaser
- Dilute 1:35 by volume, or 1:25 by weight to provide full strength working solution for spray application

### FEATURES/BENEFITS

- 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

# SAATI

The World Class Manufacturer of Screen Printing Mesh, Emulsion and Chemicals



## Contact SAATI Today

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