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 SepasFZC

ulano®

20
06



20
03



Marabu

20
08

 Watts
Urethane
Products

20
11

 Fimor
SERIGRAPHY

20
13

peyer

20
19

ICA GROUP®

NBCO

20
10



20
11

KIWO

20
15

Introduction

Sepas F.Z.C. was founded by a group of entrepreneurs and investors in 1998 in the Ajman Free Zone, United Arab Emirates. Today, with almost 30 years of team experience in development and innovation, Sepas F.Z.C has become one of the largest suppliers of pad, screen printing, and heat transfer machines and supplier of printing consumables conforming to global standards in the Middle East.

The company has been developing a rich network of suppliers to maintain the highest quality components and accessories for its products. For Sepas F.Z.C customer satisfaction is vital. Our strong relationships with customers are primarily due to our comprehensive after-sales service philosophy. Our clients continue to do business with us because they trust the quality of our products and services.

At Sepas we are committed to supporting and implementing new developments in Pad & Screen Printing. We consider that the adoption of a Total Quality Management System standards to ensure the customer's satisfaction. "To Create Valuable Customers with Access to Printing Solutions".



Sepas F.Z.C

ACCESS TO PRINTING SOLUTIONS

Sepas F.Z.C was established in 1998 within the Ajman Free Zone, United Arab Emirates and emerged from the collaborative efforts of visionary entrepreneurs and investors. With more than two decades of collective expertise in development and innovation, Sepas F.Z.C has become a major solution provider of industrial printing machines, consumable and materials in the Middle East conforming to global standards. Customer satisfaction stands at the core of Sepas F.Z.C values to ensure product quality and proper services.

Sepas F.Z.C is one of the leading supplier of industrial printing machines. Providing the related parts and consumables is another service which is offered to our valuable customers. In addition, Sepas F.Z.C is the distributor partner of several international well-known suppliers of printing material such as Marabu, Kiwo, Ulano, ARC, NBC, Peyer, ICA, Fimor, Watts in the Middle East. Our Mission is to provide the customers in the printing industry with a complete package of Access to Printing Solutions. Sepas's Vision is to be the number 1 choice of supplier for all customers in the printing industry.

Sepas F.Z.C Products and Services

• Printing Machines

We provide different types of printing machinery such as pad printing machines, screen printing machines, heat transfer & foiling machines, drying tunnel and UV curing machines based on customers' requirements and demands.

These machines are used in various industries such as Glass, plastics, detergents, cosmetics, electronics, healthcare, promotional, and dairy products and many others.



• Silicone Pads

Today, the silicone pads produced by Sepas F.Z.C are among the most diverse and high-quality options available on the market. The experts at Sepas F.Z.C offer specialized consulting to assist customers in selecting and purchasing the appropriate pads.

Depending on the material and physical shape of the product as well as the dimensions of the design, customers can choose from hard, regular, soft and very soft pads. This classification helps facilitate high-quality pad printing on various products.



• Thin Cliche, Steel Plates, Polymer Plate in Various Sizes

The plate-making department of Sepas Company produces sheet and steel plates after designing and obtaining approval from our esteemed customers. The use of the highest quality materials and plate-making supplies, under the continuous technical supervision of specialized experts, is what distinguishes Sepas's products.



- **Graphic Design**

The design and graphics service unit operates as an interactive studio, providing design consultancy and executing various projects related to industrial printing for the company's clients. The unit's output designs are tailored to the dimensions and surface of the components, making them suitable for the production of clichés or stencils required for printing. The final design is transferred onto the cliché or stencil, and then imprinted onto the printing substrate using ink or foil on different materials. An essential aspect of the design process is the simultaneous consideration of both aesthetic and technical-executional factors.



- **Accessories and Parts for Printing Machines**

The use of high-quality components significantly impacts the lifespan, performance, and efficiency of machinery. Therefore, Sepas F.Z.C Company has taken steps to meet the needs of the printing industry in Iran by producing, supplying, and providing the necessary items for pad and silk printing machines, as well as industrial printing supplies, with the best quality.

Color tanks (ink cups), various types of mechanical, electrical, and pneumatic main and auxiliary equipment and parts such as cup tables, ink trays, pad sliders, electronic boards, wiring assemblies for each machine, various microswitches, fittings, and pneumatic hoses are among these components.



PP 125

The PP125 is a single-color pad printing machine designed for various applications, including promotional products, electronic components, toys, and cosmetics. The PP125 features a three-language digital display (English, Persian, Arabic), a microprocessor, intelligent fault diagnosis system, emergency stop button, pneumatic speed control, horizontal cup movement for color mixing, and easy ink cup replacement. It is constructed from lightweight and durable aluminum.



SP 1600

- Versatile user-friendly machine for Flat and Round screen printing
- Pneumatic power operation
- Special design for printing round, curve and cone-shape objects.
- Continuous printing action with pause/resume
- Automatic error finder
- Emergency interrupt
- Single-cycle mode
- Fast setup & quick tooling change-over.
- Quick change over for round or flat printing
- Light & Rigid machine frame
- Simple & accurate squeegee pressure adjustment



Drying Tunnel

The Hot Air Drying Tunnel ensures fast and more reliable screen printing production process in terms of curing and adhesion specially once printing on Glass and Metal.

- Adjustable Temperature up to 180C
- Speed Adjustable Metal Belt
- Adjustable Input/output Tunnel Entrance/Exit Height according to each product
- Easy & User Friendly Operation
- Equipped with roller table for holding the heated products



HEAT TRANSFER MACHINE

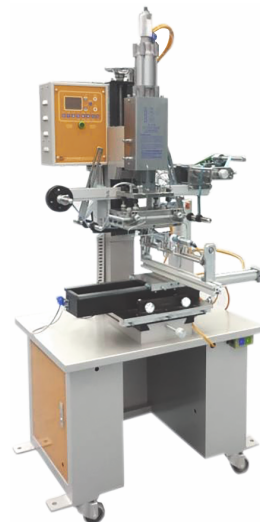
This machine is used for the heat transfer printing process. In this method, heat is applied to a film (ribbon), resulting in the printed design on the film being securely placed onto the printing surface through a mechanism. The design is then transferred from the film to the printing surface by applying heat.

In the heat transfer machine, appropriate pressure and temperature are applied from the film to the desired piece using a silicone roller. The systems controlling heat, pressure, and tension are automatically adjusted.



HOT STAMPING MACHINE(Foiling)

The Hot Stamping Machine is used for applying gold, silver, and various other types of foils onto products. In this process, designs are first transferred onto a silicone or metal cliché, and then, by applying sufficient heat and appropriate pressure, the design is transferred from the foil onto the product's surface. The settings related to heat, pressure, and foil tension can be adjusted both manually and automatically.



AIR-DRYING AND UV DRYING MACHINES

Some air-drying inks used in pad and screen printing (such as special inks for printing on raw metals, glass, and ceramics) require a specific duration of heat exposure after printing to achieve final stability and maximum chemical and mechanical resistance. Some inks used in screen and pad printing industries require direct UV radiation for drying. Therefore, placing parts in a UV dryer after printing is essential. This device is custom-made in various sizes and dimensions, considering the physical nature of the parts (curved or flat).



COLORS
MADE FOR
LIFE. ■



Marabu
PRINTING INKS





PRINTING INKS AND COATINGS.

SCREEN ▪ DIGITAL ▪ PAD





Marabu



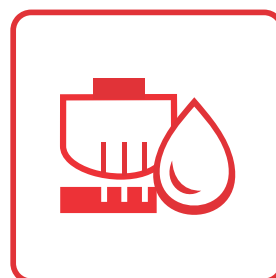
Marabu

COLORS MADE FOR LIFE

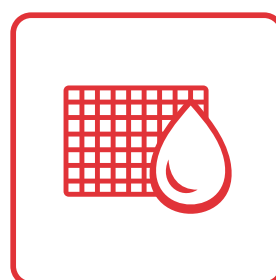
Marabu GmbH & Co. KG is a leading global manufacturer of screen, digital, and pad printing inks. The company is headquartered near Stuttgart, Southern Germany, a region renowned for its pioneering technology and engineering prowess.

Marabu has been a synonym for high-quality specialist inks with the quality seal "Made in Germany" for over 150 years. Development and production of our range of currently 20,000 products are always focused on the customers and on the market with experience, competence and an eye for detail. Our two successful divisions manufacture products which are extremely user-friendly whether inks for special printing processes or paints for hobby and crafts. Marabu is the number 1 in both worlds.

● Marabu Products



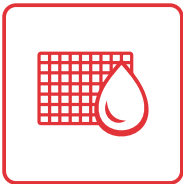
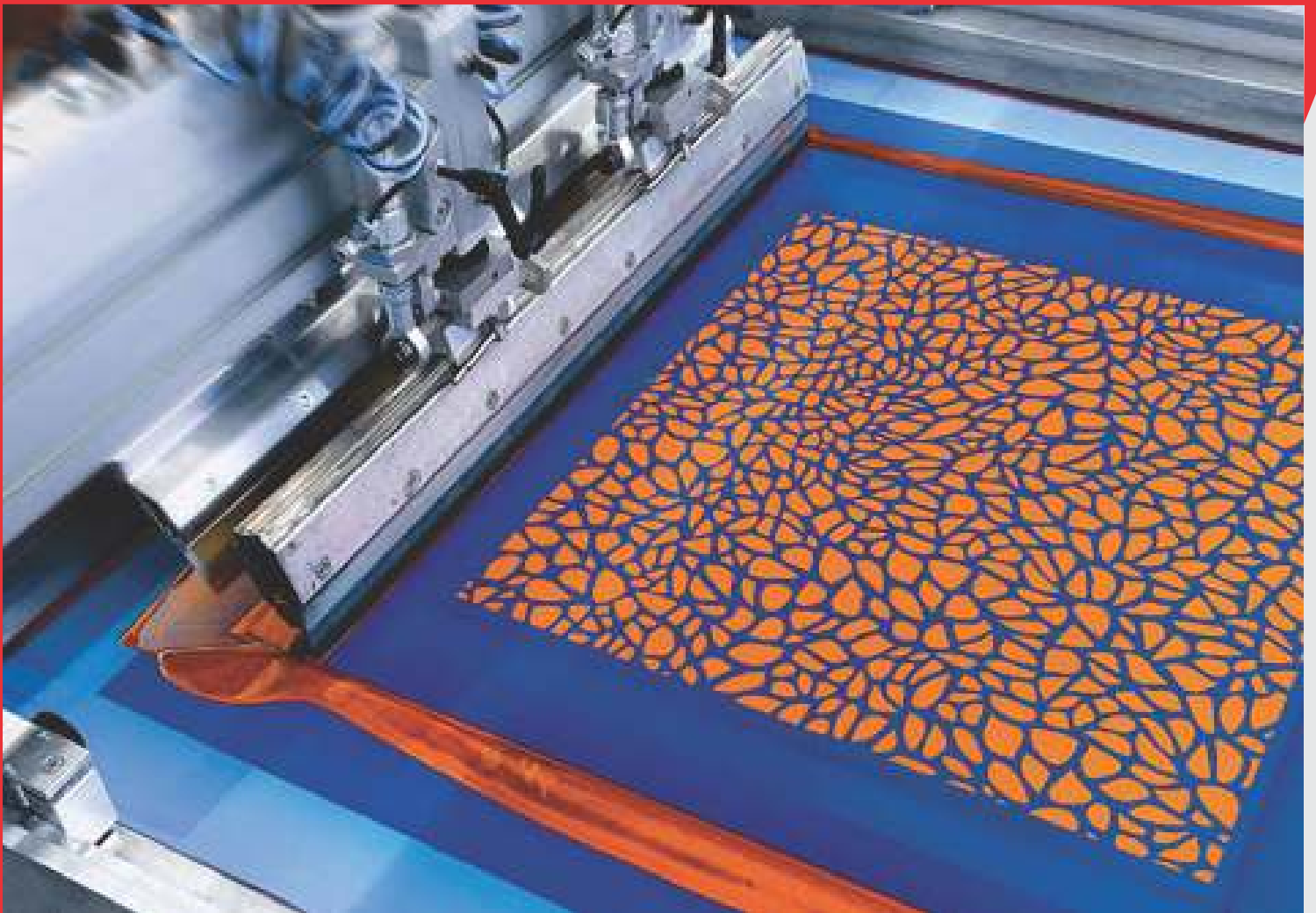
Pad



Screen



Digital



● Screen Printing Inks

Screen printing is highly versatile, creating possibilities that no other process can. To make the most of this technology for decorative and functional applications, flexibility and expertise are a must. Marabu has long played a key role in shaping screen printing technology. Our innovative ideas and products combined with our in-depth knowledge of printing processes have been instrumental in driving this technology forward. All over the world, Marabu is synonymous with high-quality inks, manufactured to the highest standards.

Our products represent the highest precision, durability, and reliability.

- The "Made in Germany" label is our clear commitment to quality and responsibility.
- Consistently high quality from batch to batch, precise and reliable .
- Sustainable production through long term investments.
- Decades of experience ensuring top tier performance in every detail.
- Reliable supply chains ensuring punctuality and efficiency.



Mara Glass MGL

Screen Printing Ink for glass, ceramics, metal, aluminium, chrome-plated parts, coated substrates

High gloss, high brilliance, medium opacity, silicone free, fast curing 2-component ink



Glass Ink GL

Screen and Pad Printing Ink for glass, ceramics, metals, aluminium, chrome-plated parts, coated substrates, and thermosetting plastics

Satin-gloss finish, high opacity, fast drying 2-component ink system, dishwasher-proof



Mara Star SR

Screen Printing Ink for PVC self-adhesive foil, rigid PVC, ABS, SAN, acrylic, polycarbonate, pretreated polyester foils, thermosetting plastics, coated substrates, High gloss, high opacity, very fast drying, good resistance to petrol, weather-resistant, suitable for moulding



Mara chrome MC

Solvent-based screen printing ink for mirror, chrome, and metallic effects Mirror effect ink for prints on the reverse side of transparent substrates



Mara Flor TK

Screen printing ink for textiles made of synthetic and natural fabrics, polyurethane foam material
Matt, semi-opaque, quick drying, 2 component ink system, weather and wash resistant



Mara Flex FX

Solvent-based Screen Printing Inks for the manufacturing of ID-Cards
Suitable for laminating and embossing, offset-overprintable, satin ink film, very flexible



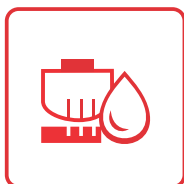
Ultra Pack UVC

UV-curable screen printing ink for pre treated, polyethylene and polypropylene, polyester PET and PETG, rigid PVC, polycarbonate, and polystyrene



Ultra Glass UVGL

UV-curable screen printing ink for packaging and restaurant glass, flat glass used indoors, glazed ceramic, metals, anodized aluminium, and varnished surfaces



● Pad Printing Inks

Enhanced and fine-tuned over decades, pad printing has become a firm fixture in the printing landscape. And it's not surprising this technique offers unique solutions for some of the toughest surfaces. Suitable for a wide range of applications and substrates, this versatile process ensures first-rate results for decoration, marking, and identification.

Pad printing inks, despite their similarities and shared applications with screen printing inks, have key differences in structure and usage. Pad printing inks are typically thinner and have fast-drying properties, as they need to quickly transfer onto surfaces and are often used for fine, precise, and multi-dimensional prints such as logos or small text.

Generally, in terms of durability and coverage, pad printing inks have slightly less durability and coverage compared to screen printing inks. However, they dry much faster. Based on their drying process, these inks are categorized into UV inks and air-drying inks. Designed to work effectively on all popular printing equipment, Marabu inks achieve impressive results even on difficult substrates – meeting the ever-changing challenges of your market. All around the globe, Marabu is synonymous with high-quality inks, manufactured to the highest quality management standards.



Tampa Pure TPU

Pad printing ink for pre-treated polyethylene and polypropylene, metal and varnished surfaces
High gloss, good opacity, fast curing 2-component ink system, resistant to chemicals



Tampa Cure TPC

Pad printing ink for ABS, rigid PVC, some PC, PS, and PMMA materials, pre-treated PE and PP, PA as well as some metals, and varnished surfaces
UV-curable, high gloss, good opacity, 1- or 2-component ink system, resistant to chemicals



Tampa Glass TPGL

Pad printing ink for glass, ceramics, metal, aluminium, chrome-plated parts, varnished surfaces, and thermosetting plastics
Glossy, high opacity, fast curing 2-component ink system, dishwasher resistant



Tampa Star TPX

Pad printing ink for natural or synthetic fabrics, and other substrates like polypropylene, thermoplastic elastomers.
2-component system, flexible, very high opacity, very good resistance, made without the use of BPA, with lowest PAH values, tested and certified according to ECO PASSPORT by OEKO-TEX®



Tampa Star TPR

Pad printing ink for rigid PVC, polystyrene, ABS, SAN, polycarbonate, acrylic glass, and varnished substrates
Glossy, good opacity, very fast drying, 1 or 2 component system, resistant to petrol



Tampa Pol TPY

Pad printing ink for ABS, rigid PVC, pre-treated polyethylene and polypropylene, varnished surfaces, thermosetting plastics, and metal
Glossy, good opacity, fast drying 1 or 2 component system, resistant to chemicals



Mara Flex FX

Solvent-based Screen Printing Inks for the manufacturing of ID-Cards
Suitable for laminating and embossing, offset-overprintable, satin ink film, very flexible



Glass Ink GL

Screen and Pad Printing Ink for glass, ceramics, metals, aluminium, chrome-plated parts, coated substrates, and thermosetting plastics
Satin-gloss finish, high opacity, fast drying 2-component ink system, dishwasher-proof

• Marabu Inks Application

Textiles and Fabric Industry

In the clothing industry, due to the constant washing of products, the adhesion of the ink to the fabric and its flexibility are determining factors in selecting the type of ink. Additionally, the absence of skin sensitivity and resistance to cold and heat are also key factors in this selection. In this context, Marabu has addressed the needs of this industry by introducing inks that comply with international standards.



Household Appliances

One of the largest industries that plays a very special and important role in the lives of various human societies is the household appliances industry. Having a stable and durable print with high chemical and mechanical resistance, considering the continuous and ongoing use of household appliances in daily life and sometimes the need for washing them, is a significant competitive advantage for this category of products. The inks produced by Marabu are an ideal option to achieve these advantages in the household appliances industry.



Medical Equipment

Safety is the most important factor in medical products and supplies. The inks used for label printing and medical equipment must have sterilization capabilities and maintain their properties. Preventing the infiltration and leakage of ink into the biological environment of the body is the primary goal, which is ensured by Marabu's medical-grade inks.



In-Mold Decoration (IMD)

This technology provides a beautiful graphic appearance and durable physical properties to products without the need for labels. In this method, the relevant images are printed on special films or sheets and placed inside a mold. Then, a resin compatible with the properties of the film is injected from behind the film, resulting in molding from the respective film. When producing the final part, the prepared mold is placed inside the injection machine, and the production process begins. The inks used in this system have very high elasticity (flexibility) and excellent stability at high temperatures.



Sports Equipment

In the field of sports and various related equipment, we encounter a large community of athletes and a wide range of products associated with this industry, as well as a very high color diversity. The most important parameters related to the inks used to maintain the standards of produced sports equipment are high transparency, suitable coverage, and ideal chemical and mechanical resistance. The inks produced by Marabu are the best option to adequately meet the needs of this industry.



Toys and Children's Items

Toys and children's items require careful consideration and serious attention regarding health and safety. The hygiene and safety of the materials and inks used in these products are very critical. In this regard, Marabu has made significant contributions to ensuring children's health during the use of printed products by producing this category of inks.



Electronic Equipment

Electrical equipment includes tools and devices such as cables, miniature fuses, switches, and essential goods fundamental to every industry and home. These products are designed to ensure energy supply, safety, and efficiency in electrical systems, playing a key role in the optimal and sustainable performance of equipment. Given their frequent and repeated use, these devices require durable and long-lasting printing that possesses maximum chemical and mechanical resistance.



Glass Industry

One of the largest industries that society is constantly in contact with, which encompasses a wide range of human production. Marabu, by utilizing special organic inks for glass, has played a significant role in reducing energy consumption and printing costs for glass. Ceramic (mineral) colors, along with high costs and energy waste, also pose environmental problems. The excellent washability, along with good chemical and mechanical resistance of Marabu's special glass inks makes them an ideal choice for use in the glass industry.



Food Industry

One of the most important factors in food products is safe and non-toxic packaging inks. The use of Marabu's food-grade inks has solved this issue for food packaging manufacturers. The stability of properties and lack of permeability are distinguishing features of using this category of inks.



Perfume Industry

The perfume industry is a global market driven by luxury, innovation, and personal expression. With a strong focus on branding and packaging, the bottle design continues to shape a core competence, making perfume a key element of the beauty and fashion world. Marabu inks are a trusted choice in the perfume bottle industry, known for their exceptional adhesion, durability, and vibrant color options. Designed specifically for glass, Marabu inks offer high resistance to chemicals, alcohol, and abrasion, ensuring long-lasting branding and decoration in different printing techniques like screen printing and pad printing.



Cosmetics Industries

The visual appeal of cosmetic and hygiene products, along with ideal chemical resistance, is a crucial factor in attracting customers. Given the evolution of cosmetic and hygiene products in line with societal needs, their printing and packaging must also evolve accordingly. Marabu has facilitated this with the introduction of suitable inks. The unique design, printing, and packaging of PE, PP, and PET bottles and containers set them apart from competitors. Marabu has made significant contributions by introducing recommended inks that offer high gloss and adhesion, while also ensuring skin safety.



Promotional Gifts

Advertising is one of the most common ways to communicate with customers in any industry. Printing on promotional gifts creates a lasting impression in the minds of customers. Therefore, Promotional give - aways must be original, economical, and representative! Printing on promotional gifts creates a lasting impression in the minds of customers. The wide range of colors that are suitable for any application (material of the item) is one of the unique features of Marabu's inks.



OUR NUMBERS SPEAK FOR THEMSELVES.

FOCUSED & DOWN-TO-EARTH

SINCE 1859

Ink manufacturing expert

130 MILLION €

Annual turnover

550

Employees

In **80**

countries with sales partners
and subsidiaries

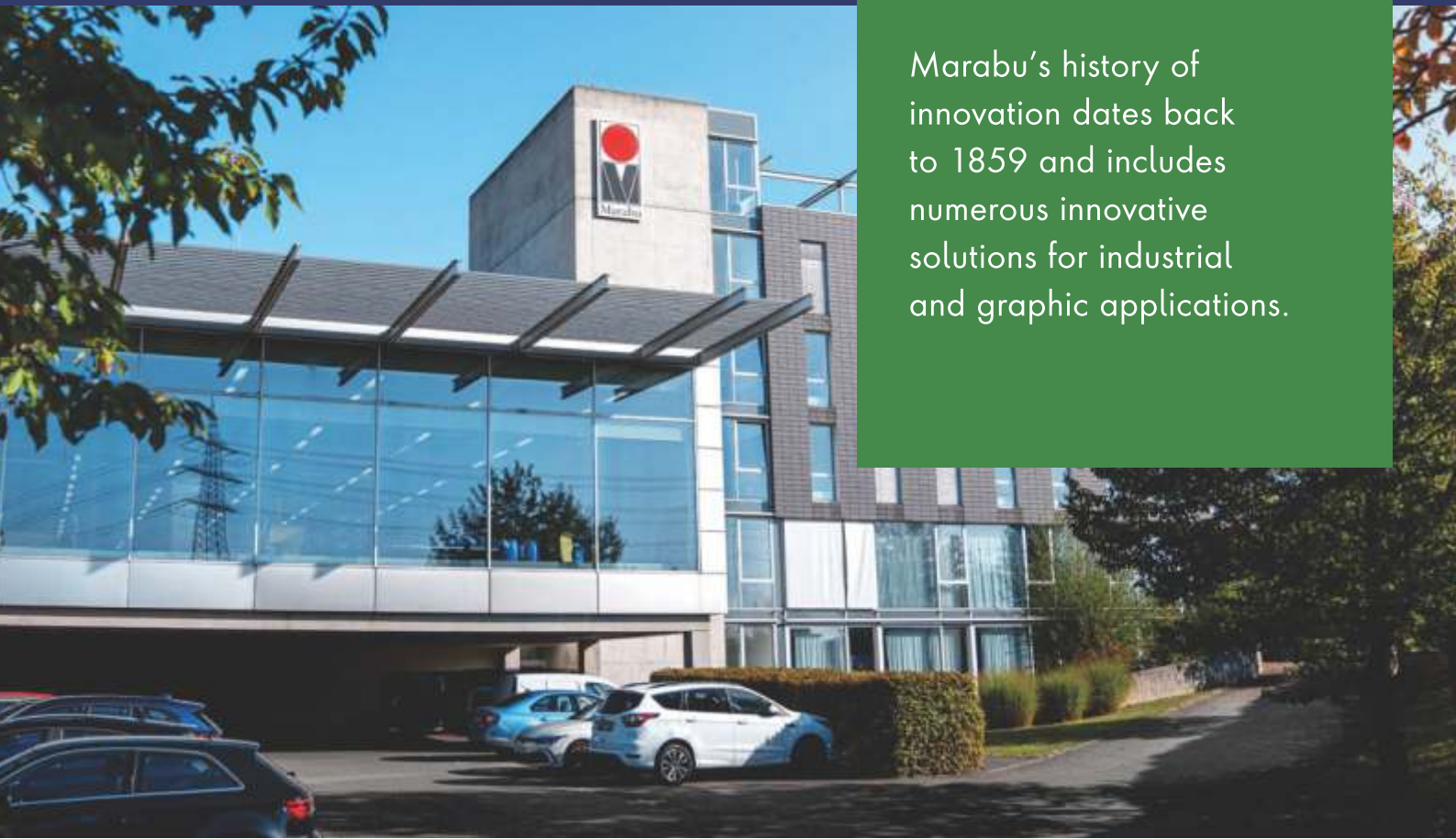
Reduction of further **20 %**
CO₂ emissions by 2032

4000 T

Production volumes p.a.



Marabu's history of innovation dates back to 1859 and includes numerous innovative solutions for industrial and graphic applications.



WHAT MAKES US STRONG.

DEDICATED & VALUE-DRIVEN

We stand by our values. They flow into our daily work and form the basis of our service promise.

Our industry expertise ensures excellent customer service and comprehensive support for your print and creative projects.



INNOVATION

Innovative range of colors for every application – effective, contemporary, bold. We think big and try new things.

QUALITY

For us, 'Made in Germany' means the highest standards, quality and reliability in every one of our products.



SAFETY

Our ink systems are strictly controlled and safe to use for everyone involved.

SUSTAINABILITY

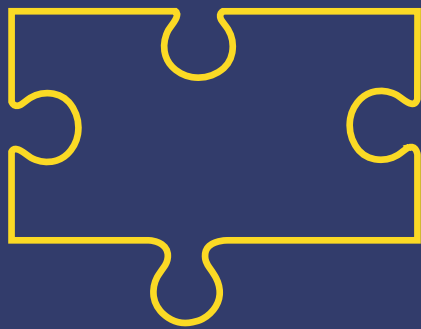
Our sustainability strategy puts us at the forefront of environmentally friendly ink solutions and social responsibility.



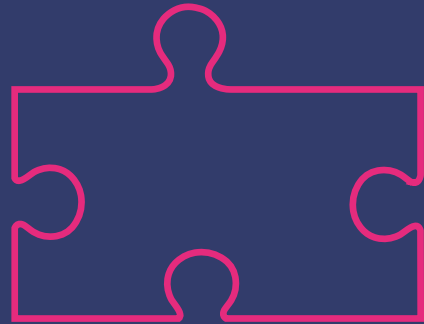
WE SET STANDARDS. ■

COMPREHENSIVE & FLEXIBLE

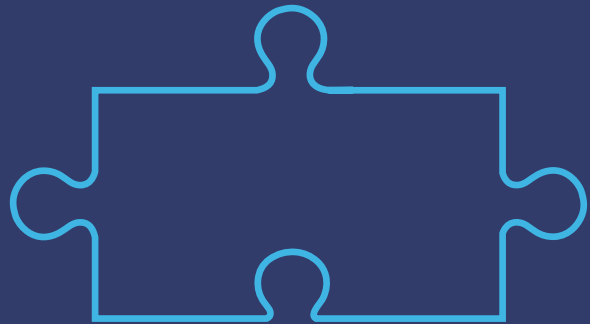
Marabu masters the entire printing process – from pre-treatment, printing and coating. We have the combined know-how of the various printing technologies. This enables us to support our customers in the transformation from analogue to digital.



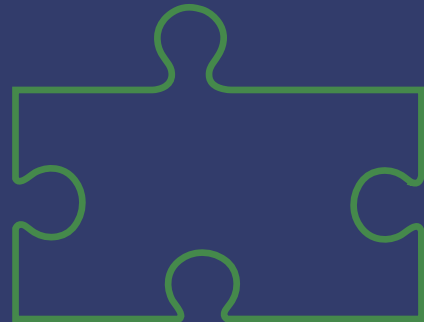
DIGITAL PRINTING



SCREEN PRINTING



PAD PRINTING



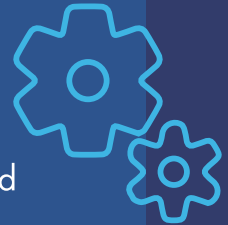
SPRAY AND
BRUSH PAINT



LIQUID COATING



COMBINATION



We are breaking new ground by combining the benefits of individual printing technologies. This allows us to respond more flexibly to your process requirements





Siebdruck Metallics Screen Printing Metallics



Metallic Pulver - Metallic Powders - Poudres métalliques - Polvos metálicos

S 180 Aluminium, milled Aluminium, milled Aluminium, milled Aluminium, milled		S 182 Reddish Gold Red Gold Or-Farbe Oro-Rosa	
S 181 Aluminium Aluminium Aluminium Aluminium		S 184 Reddish Gold Red Gold Or-Farbe Oro-Rosa	
S 183 Zinn-Metallpulver Zinn-Pulver Or-Farbe Oro-Rosa		S 186 Copper Copper Copper Copper	

Metallic Pastes - Metallic Pastes - Pâtes métalliques - Pastas metálicas

S 291 High-Gloss Silver High-Gloss Silver Argent Hochglanz Plata Alto Brillo		S 293 High-Gloss Black High-Gloss Black Schwarz Hochglanz Negro Alto Brillo	
S 292 High-Gloss Red Gold High-Gloss Red Gold Or-Farbe Hochglanz Oro-Rosa Alto Brillo		S 294 High-Gloss Silver High-Gloss Silver Argent Hochglanz Plata Alto Brillo	
S 295 High-Gloss Black High-Gloss Black Schwarz Hochglanz Negro Alto Brillo		S 296 High-Gloss Red Gold High-Gloss Red Gold Or-Farbe Hochglanz Oro-Rosa Alto Brillo	

UV Metallic Pastes - UV Metallic Pastes - Pâtes métalliques UV - Pastas metálicas UV

SUV 191 Silver Silver Argent Plata		SUV 293 High-Gloss Black High-Gloss Black Schwarz Hochglanz Negro Alto Brillo	
SUV 192 Reddish Gold Red Gold Or-Farbe Oro-Rosa		SUV 294 High-Gloss Silver High-Gloss Silver Argent Hochglanz Plata Alto Brillo	
SUV 193 Black Black Schwarz Negro		SUV 295 High-Gloss Red Gold High-Gloss Red Gold Or-Farbe Hochglanz Oro-Rosa Alto Brillo	
SUV 291 High-Gloss Silver High-Gloss Silver Argent Hochglanz Plata Alto Brillo		SUV 296 High-Gloss Black High-Gloss Black Schwarz Hochglanz Negro Alto Brillo	

Mara® Glass MGL



920 Zinn - Bronze	921 Yellow - Light Yellow	922 Metallic - Medium Yellow	923 Orange - Orange
924 Red - Red	925 Red - Red	926 Red - Red	927 Magenta - Magenta
928 Dark Blue - Dark Blue	929 Dark Blue - Dark Blue	930 Dark Blue - Dark Blue	931 Dark Blue - Dark Blue
932 Yellow - Yellow	933 Green - Green	934 Blue - Blue	935 Black - Black
936 White - White	937 White - White	938 White - White	939 White - White
940 Black - Black	941 Black - Black	942 Black - Black	943 Black - Black

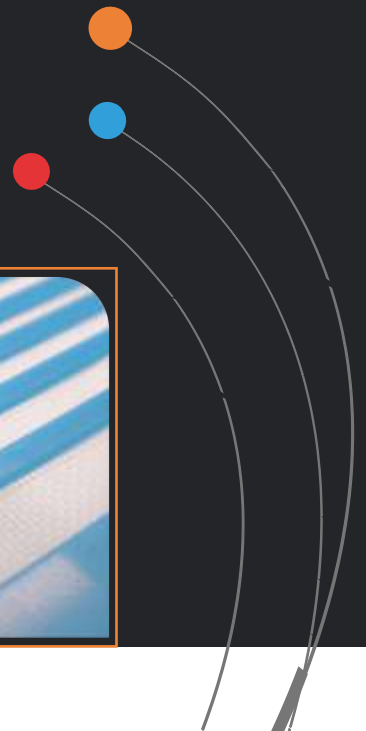
944 Silver - Silver	945 Silver - Silver	946 Silver - Silver
947 Silver - Silver	948 Silver - Silver	949 Silver - Silver

Mara GmbH & Co. KG - Phone: +49 7141 9710 - info@maraglass.com - www.maraglass.com



125
YEARS
Kissel + Wolf

Kissel + Wolf





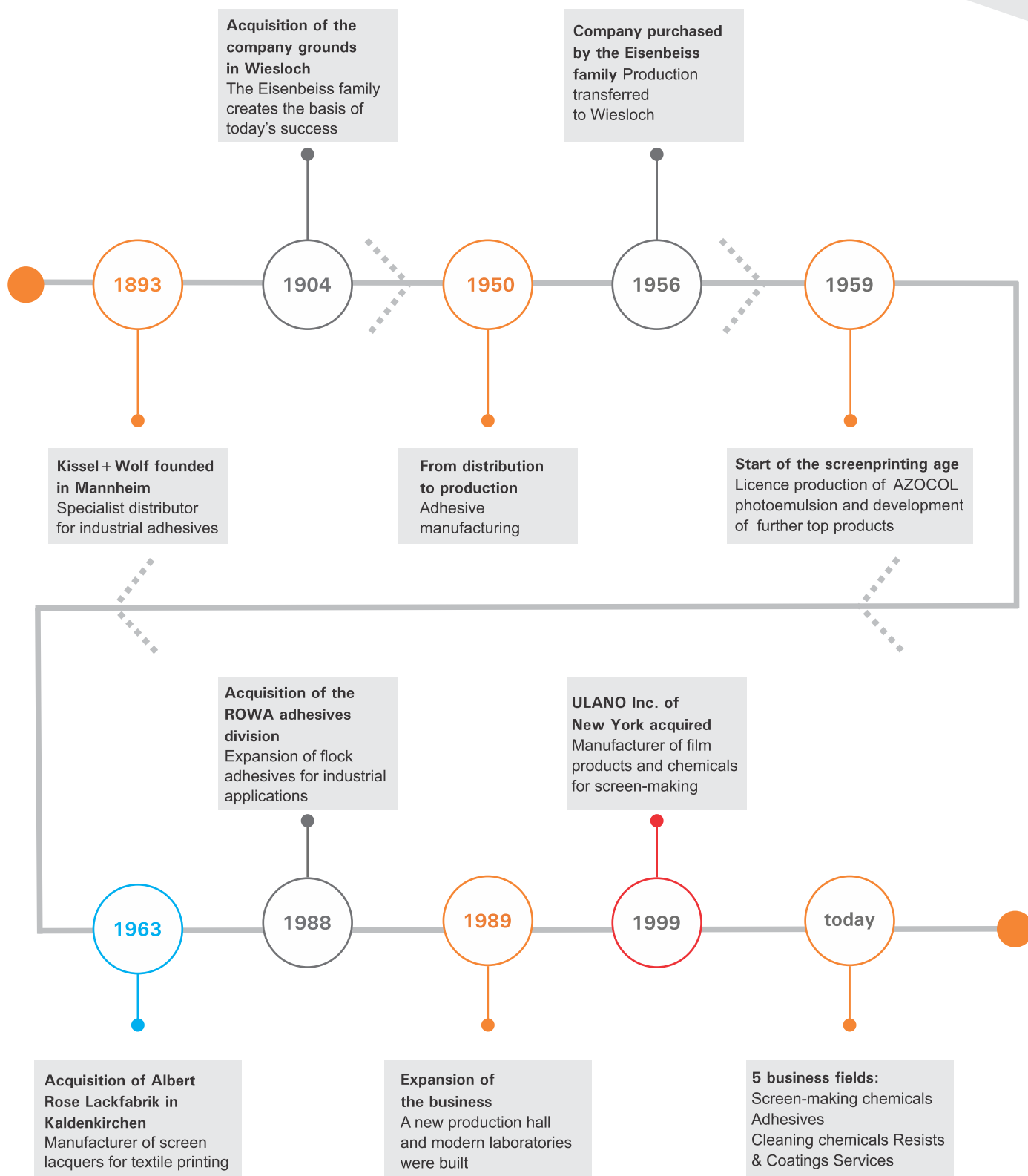
Kissel + Wolf

AT HOME – WORLDWIDE

Since the company was founded in 1893 and acquired by the Eisenbeiss family in 1956, tradition and innovation have gone hand in hand. Kissel + Wolf GmbH places great importance in a long term and global outlook and in continuous investment in people and infrastructure. As a medium-sized company we are nimble and combined with the highest level of technical competence we are able to be close to our customers, which in turn allows us to recognize and tap into new market opportunities at an early stage.

As a medium-sized family owned business based in Wiesloch near Heidelberg, Kissel + Wolf GmbH supplies chemical products worldwide for screen and textile printing; industrial, flock and special adhesives; cleaning agents; resists & coatings. We also offer services for product development and contract manufacturing.

Today Kissel + Wolf GmbH is the mother company of the KIWO, ARC (Albert Rose Chemicals) and ULANO brands. The company's five business fields include chemical products for screen and textile printing, adhesives, cleaning agents, resists & coatings, as well as services. With competent distribution partners, Kissel + Wolf GmbH is active in more than 120 countries and is well positioned for future challenges.





KIWO

WITH QUALITY COMES TRUST

For decades, Kiwo products and services have been setting the standards throughout the industry. For customers around the globe, Kiwo is a reliable partner. This reliability results in trust. And trust is the basis for a strong and successful partnership. With this principle in mind, Kiwo has earned a strong market position in nearly all of our business segments. Well over 100,000 customers, spanning every continent, use our products and service for their success chemical systems and technological systems for screen printing, textile printing and adhesives in wide ranging applications. Assured quality and market oriented business is one Kiwo's strengths. A quality built upon our ISO 90001 recognized quality management system.

With our motivated and qualified staff led by an experienced management team, we can embrace a successful future. This we will achieve by continuing to establish ourselves as a producer of high-quality chemical products in our markets and concentrating on our core competencies.

The development and production of chemicals for making screen printing stencils is one of Kiwo's core competencies. With its range of chemical products for screen printing, Kiwo sets international quality standards and also provides custom-made products for special applications. Kiwo offers products for stencil making, mesh pre-treatment, screen making and cleaning, screen decoating, mesh post treatment, accessories as well as measuring and testing. Demanding quality and market orientation in all of our business procedures for decades, Kiwo products and services have been setting the standards throughout the industry constantly finding improved solutions to customer-based difficulties.

Kiwo anticipates trends and developments, pro actively developing creative product and service solutions for improved productivity and profitability for our customers. In all aspects of our business, Kiwo employees are actively engaged in supporting our customers.



• Products

KIWOBOND 1100 PowerGrip



Two-component frame adhesive with very high solvent resistance and adhesion on aluminium frames. Especially suitable whenever aggressive, but very slow evaporating solvent-based screen cleaners are used.

Application: Add 20 % hardener KIWODUR 1100 PowerGrip (red colour) to the adhesive component KIWOBOND 1100 PowerGrip (colour less) stir it well and then apply by a plastic brush over the mesh.

AZOCOL[®] Z 140



For general use in screen printing the veritable allrounder due to its very good water and solvent resistance suitable for all graphic screen printing jobs.

Particularly noteworthy is the optimized image quality, the tone reproducibility in halftone printing, combined with excellent print performance. Despite its good resistance values, AZOCOL Z 140 remains easily de-coatable. Colour is blue. Sensitize with DIAZO No. 32.

AZOCOL[®] PolyPlus S



Dual-cure emulsion which can be used for solvent and UV inks. Application examples are direct print of hollow and flat glass as well as graphic screen printing applications. Colour is violet. Sensitize with DIAZO NR . 1



PREGASOL® CF 70

Highly efficient, liquid decoating concentrate for the removal of photoemulsions from screen mesh. PREGASOL CF 70 solutions are clear and odourless, chlorine-free, will not harm the mesh. The content of the PREGASOL CF 70 bottle is enough to make approx. 5 litre of ready-to-use decoating solution with good price-performance ratio.



PREGAN® Paste

Alkaline cleaning paste for universal use in screen printing. Especially suitable for the removal of ghost images. Ink and photo emulsion residue. PREGAN Paste can also be used as a roughening agent for new aluminium frames which have not been sandblasted.



AZOCOL® PolyPlus S

PREGASOL P is a ready for use, highly efficient de-coating paste for all photo emulsions based on polyvinyl alcohol. It is especially suitable for photo emulsions which are difficult to de-coat (longer reaction times) or for large sized stencils (in vertical position). PREGASOL P is odour-less, free from chlorine, does not damage the mesh and does not bleach. Due to its creamy consistency, it is easily applicable. PREGASOL P is not suitable for the removal of gelatine emulsions (indirect films).

• Products

Decorative sputter coating of architectural glass

The same application method is used for selective sputter coating of architectural glass. Only that for the selective sputter coating, the metallic deposition is applied partially and not over the entire surface. Image 1 shows an example of selective sputter coating on architectural glass. The glass facade with the floral design is at a shopping center in Leicester, England. The sputtered pattern should give the building an interesting appearance and protect the interior from the sun.



Bird friendly glass

The areas which should not to be coated, are masked with a resist. The masking can be done either by inkjet or screen printing. For glass sizes of less than 6 meters and larger numbers of glass panes with the same design, masking by means of screen printing is recommended. For larger glass formats or individual designs, the masking is preferably applied with inkjet. After the sputter coating process, the resist and the metallic coating above can be removed with a special cleaning chemical either manually or in an automatic washing unit.



KIWOMASK® IJ 7312/2 VP

Resist for the decorative sputtering of architectural glass, Applied by inject KIWOMASK IJ 7312/2 VP is printed on the coated glass sheet with a digital flat-bed printer for solvent inks. The resist masks those areas which are not to be sputtered. After coating, KIWOMASK IJ 7312/2 VP can easily be removed in a manual or automated cleaning process



Resists & Coatings

KIWOMASK® is both a screen and tampon printable etch and galvano resist for glass and metal surfaces. This product series has very good resistance to acidic and alkaline solutions in etching and galvano baths, as well as to solutions containing hydrogen fluoride (HF).



Screenable adhesives

Screen printable adhesives are an important part of the Kiwo range of products. Whether solvent, water or UV-based, Kiwo has the right screen printable adhesive for graphic and industrial applications.

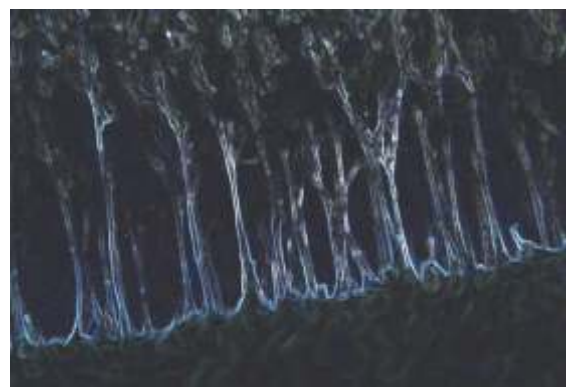
Amongst others, specialties include adhesives for temporary tattoos and applications in the field of printed electronics and automotive.



MECOFLOCK®



Industrial adhesives spray adhesives



Flags

e.g. POLYTEX®
water resistant
emulsions



Architectural glass

e.g. KIWOMASK®
sputter resists



Flocked shoes

e.g. MECOFLOCK®
flocking adhesives



RFID

e.g. AZOCOL®
fine-line
photoemulsions



Etching labels

e.g. KIWOMASK®
etching and plating resists

Floor advertising

e.g. AZOCOL® Diazo
UV-polymer emulsions



T-Shirts

e.g. TEXSOL®
ECO PASSPORT
compliant emulsions



Credit cards

e.g. KIWOTHERM®
heat activatable
adhesives



KIWO Application



KIWO



Ulano

FOCUSING ON YOUR FUTURE

ULANO is recognized as a world-class leader in the screen printing and graphics arts industry. Our administrative and manufacturing facilities are in Wiesloch (Germany) and Brooklyn (USA) where we also have research and development laboratories, applications laboratories, and technical training centers. ULANO specializes in the manufacture of stencil-making products and chemicals for screen process printing. We also supply masking films, inkjet media, automated coating equipment, and stencil evaluation tools.

As a future-oriented company, research and development as well as expertise in application technology are of utmost importance to us. Around 15 % of our employees work in these areas, which means we remain globally competitive and innovative. We not only supply products to our customers, but also provide comprehensive solutions.

The Ulano Corporation is recognized as a world-class leader in the screen printing and graphics arts industry. Ulano specializes in the manufacture of stencil-making products and chemicals for screen process printing. We also supply masking films, inkjet media, automated coating equipment, exposure test positives, and stencil evaluation tools.

Our primary objective is to offer outstanding service to our customers!

We accomplish this by:

- Understanding and exceeding customers' needs and expectations. Striving for 100% satisfaction.
- Delivering on-time, technologically suitable and beneficial products of the highest quality standards in our industry.
- Maintaining a friendly and courteous attitude.
- Uncompromising integrity.
- Training our customers on how best to use our products and understand the benefits that they offer.
- Making every effort to assist in finding solutions to challenges.



● Products



Ulano RLX

Multi-purpose diazo/acrylic photo polymer screen emulsion. RLX has broad exposure latitude, superior edge definition and resolution, and resistance to a wide variety of solvent- and water-based ink systems. RLX also possesses excellent coating properties, mesh bridging, stencil build per coat, drying speed, and durability. It has a high-contrast magenta color with superior resistance to humidity.



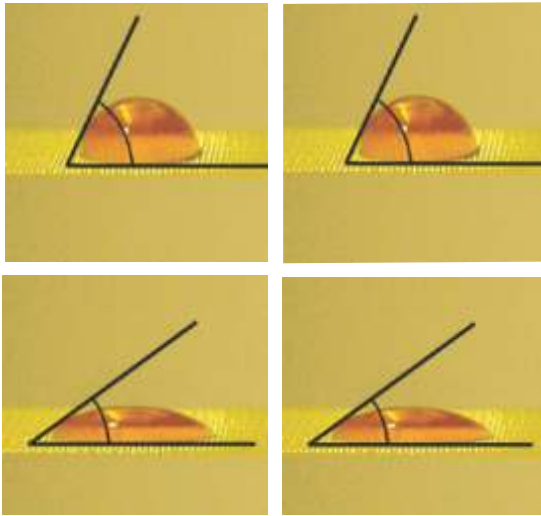
Ulano QTX

QTX is a red coloured, ready-to-use, ultra-fast exposing SBQ photopolymer direct emulsion formulated for imprinted sportswear applications. It's high solids content provides superior coating properties, better bridging of coarse mesh, and fast drying. QTX is designed for plastisol inks, is extremely durable and reclaims easily



Ulano LX-892 Violet

LX-892 Violet is used for the production of high-quality, water and solvent resistant screens for ceramics direct and textile printing stencils. The print run resistance can considerably be increased by chemical hardening with ULANO hardener. Before hardening, LX-892 Violet is decoatable. Violet color.



MAGIC MESH PREP

Multi-purpose diazo/acrylic photo polymer screen emulsion. RLX has broad exposure latitude, superior edge definition and resolution, and resistance to a wide variety of solvent- and water-based ink systems. RLX also possesses excellent coating properties, mesh bridging, stencil build per coat, drying speed, and durability. It has a high-contrast magenta color with superior resistance to humidity.



CDF VISION 15, 18, 20, 25, 30, 35, 50

CDF Vision is a green colour diazo dual-cure capillary film. Its special formulation controls mesh penetration and enhances photo-polymerization, resulting in sharp printing shoulders and mechanical durability. Particulate-size control reduces granularity effects for optimal resolution and definition. Texturing agents impart a micro-structural pattern to the bottom of the stencil, minimizing hydrostatic attraction to the printing stock under conditions of high humidity, and electrostatic attraction under low humidity conditions.



Pigment Inkjet Film

Films for water-based pigment and dye inks. Instant-dry ink receiving layer. Has the ability to operate in full daylight conditions and is compatible with industry standard pigment or dye inkjet printers. Furthermore, inkjet technology holds the promise of producing inexpensive color proofs from the same file that generated the separations.



ARC

ROTARY SCREEN PRINTING

Albert Rose Chemicals (ARC) is a distinguished division of Kissel + Wolf GmbH, specializing in the development and production of chemical products for the textile printing industry. Established in the late 1970s, ARC has become a globally recognized brand, offering a comprehensive range of products tailored for both flat and rotary textile printing applications.

ARC's extensive product line caters to various aspects of textile printing, including: Rotary Screen Printing: Featuring emulsions and lacquers designed to meet the specific demands of rotary screen printing processes.

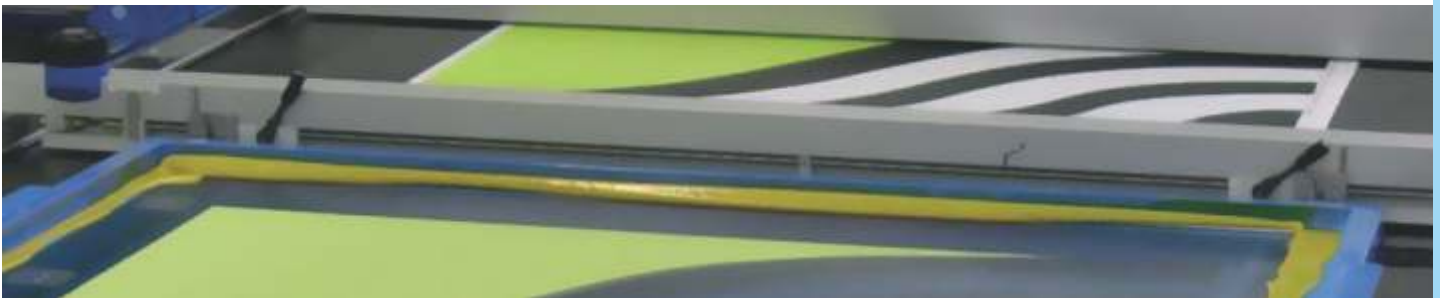
Integration with Kissel + Wolf GmbH Since its inception, ARC has operated as an integral division of Kissel + Wolf GmbH. All facets of ARC's operations, including development, application technology, production, and sales, are fully integrated into Kissel + Wolf's headquarters in Wiesloch, Germany.

Pursuing future-orientated developments constitute an important part of ARC's business philosophy. Here the aim is to combine both occupational safety and health as well as environmental protection with the high functionality required for textile printing.

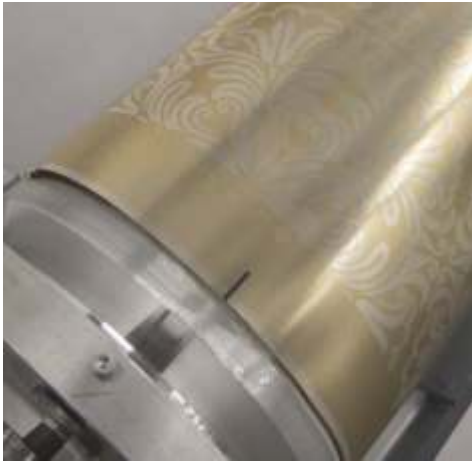
This is exemplified by the development of chrome free rotary emulsions and laser engraving lacquers for rotary screen printing. A highlight are the one-component ROTACOAT emulsions. ARC thus has a universal rotary printing emulsion that meets the highest requirements.

With the help of DIAZO and SBQ technology, chrome sensitized emulsions can be replaced without any burden. This represents a significant contribution to environmental and health protection.

Within the framework of such innovative projects, Albert Rose Chemicals aptly demonstrates its commitment to issues revolving around protection of the environment, climate and material resources. With its new developments, Albert Rose Chemicals makes a positive contribution to stimulating a stronger environmental awareness of the user. It is a stated goal to align all further product development with special emphasis on occupational, environmental and resource protection.



• Products



ARCABOND® R 900 H / ARCADUR® R 900 H

Two-component epoxy adhesive for bonding metal or plastic endrings to nickel rotary screens. ARCABOND R 900 H can be cured with heat and at room temperature with virtually no shrinkage. The bond has high static and dynamic resistance values. ARCADUR R 900 H is the hardener for the solvent-free epoxy adhesive ARCABOND R 900 H.



ESTELAN® 1799 Green

Moisture-hardening one-component retouch lacquer. It is used for corrections of rotary screens after thermofixation and of flat screens after hardening. After hardening it is highly resistant to various substrates. ESTELAN 1799 Green has an excellent adhesion to photo emulsions and metals.



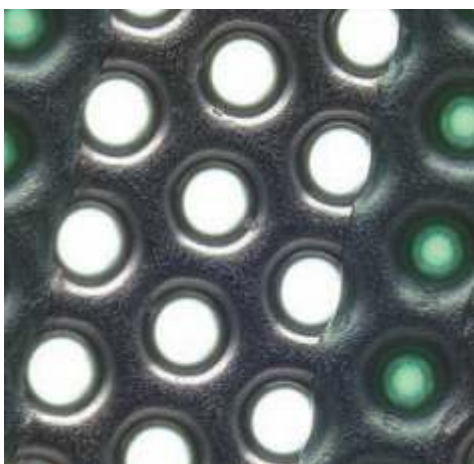
PREGAN® E

Is used for the removing and cleaning of end rings from rotary screens. It is an aggressive solvent mixture. Adhesives on basis of polyurethane, polyester or epoxy such as e. g. ARCABOND R 900 H are attacked by PREGAN E and softened by swelling so that the end rings can be easily removed from the rotary screen. The nickel screen will not be attacked.



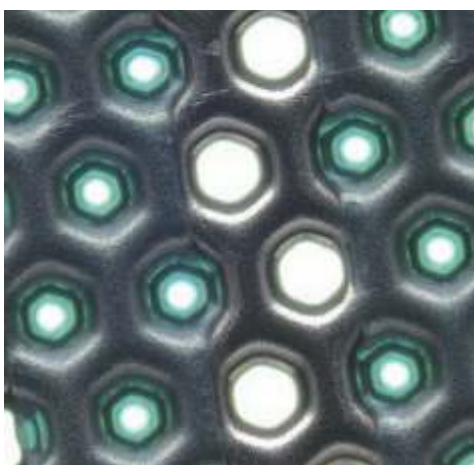
ROTACOAT® 326 Q Red

Chrome free, 1-component photo emulsion for the coating of rotary printing screens which are suitable for DLE-CTS systems and Blue-Ray laser, wax or inkjet engraving as well as conventional film exposure. Good flow properties. Can be coated with single or double squeegee coating systems. After thermal curing (60 min at 180 °C), the rotary screen has very good resistance to all common printing pastes. Can also be used with CO₂ laser engraving systems.



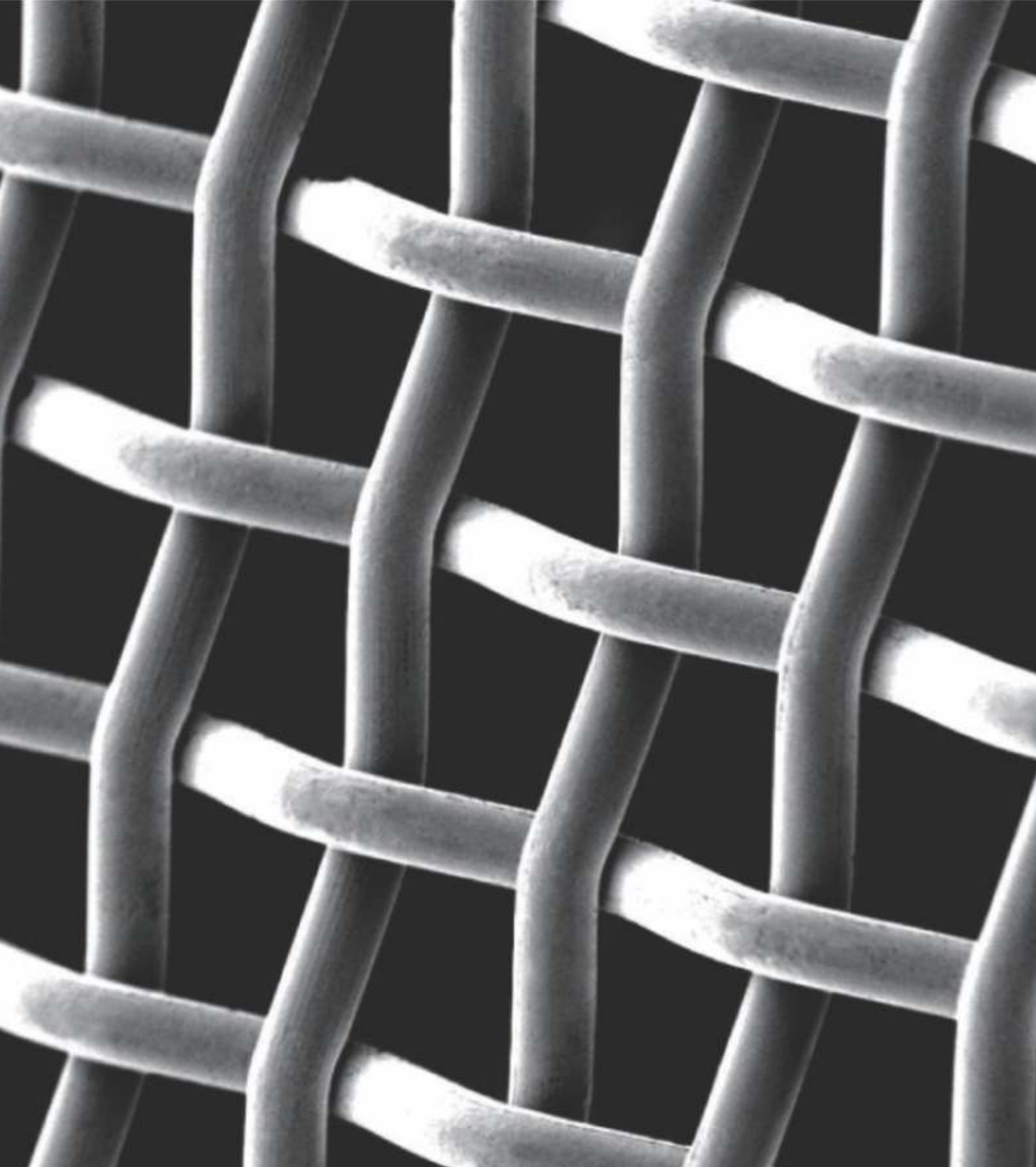
ROTACOAT® 338 Q Green

Chrome free, 1-component photo emulsion for the coating of rotary printing screens which are suitable for DLE-CTS systems and Blue-Ray laser, wax or inkjet engraving as well as conventional film exposure. Good flow properties. Can be coated with single or double squeegee coating systems. After thermal curing (60 min at 180 °C), the rotary screen has very good resistance to all common printing pastes. Can also be used with CO₂ laser engraving systems.



ARCAGEL® 115 D-CTS Blue

Diazo photo emulsion for rotary printing screens. ARCAGEL 115 D-CTS Blue is used in textile and wallpaper printing for Blue-Ray laser and DLE-CTS exposure systems, but is also suitable for conventional film exposure, wax and inkjet engraving of rotary printing screens. Due to the lower viscosity particularly suitable for single squeegee coating. Sensitize with DIAZO No. 10.



Precision Screen Printing Meshes
PRODUCT GUIDE



Thread type
L : Conjugated polyester monofilament (27 μ m - 30 μ m)
UX: Super high modulus polyester monofilament (33 μ m - 45 μ m)
EX: High modulus polyester monofilament

Metal *series* SCREEN

NL SCREEN, nylon monofilament mesh is well-suited for printing onto curved or rigid surfaces because of its flexibility and elasticity. NL SCREEN also has reliable mechanical resistance and good emulsion adhesion, making it suitable for printing with abrasive paste or substrate.

series

NL SCREEN



V S

Metal *series* SCREEN

Thread type
L : Conjugated polyester monofilament (27 μ m - 30 μ m)
UX: Super high modulus polyester monofilament (33 μ m - 45 μ m)
EX: High modulus polyester monofilament

NL SCREEN, nylon monofilament mesh is well-suited for printing onto curved or rigid surfaces because of its flexibility and elasticity. NL SCREEN also has reliable mechanical resistance and good emulsion adhesion, making it suitable for printing with abrasive paste or substrate.

series

series

NL SCREEN





NBC

THE MOST ADVANCED MESH TECHNOLOGY IN THE WORLD

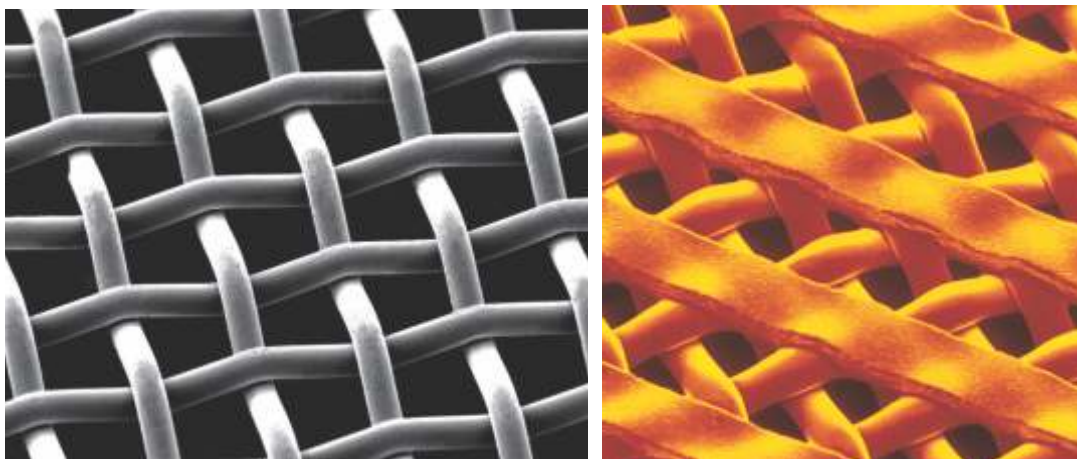
NBC Meshtec Inc. was founded in 1934 as the first company in Japan aiming to produce bolting cloth for use in flour milling. Since then we've developed advanced mesh cloth technologies based on our original bolting cloth business. We have developed and provided a wide variety of highly functional materials indispensable to modern life by solving various problems through our filtration capabilities.

Examples include materials for high-definition screen printing also used today in the manufacture of electronic devices, industrial materials used in the communications, medical, and environmental fields, and plastic molding products including molded filters for automobiles and home appliances.

With confidence in the future, and a strong belief in the powerful contribution of our mesh materials to society and our natural environment, NBC Meshtec strives to continually enhance the value of our mesh products.

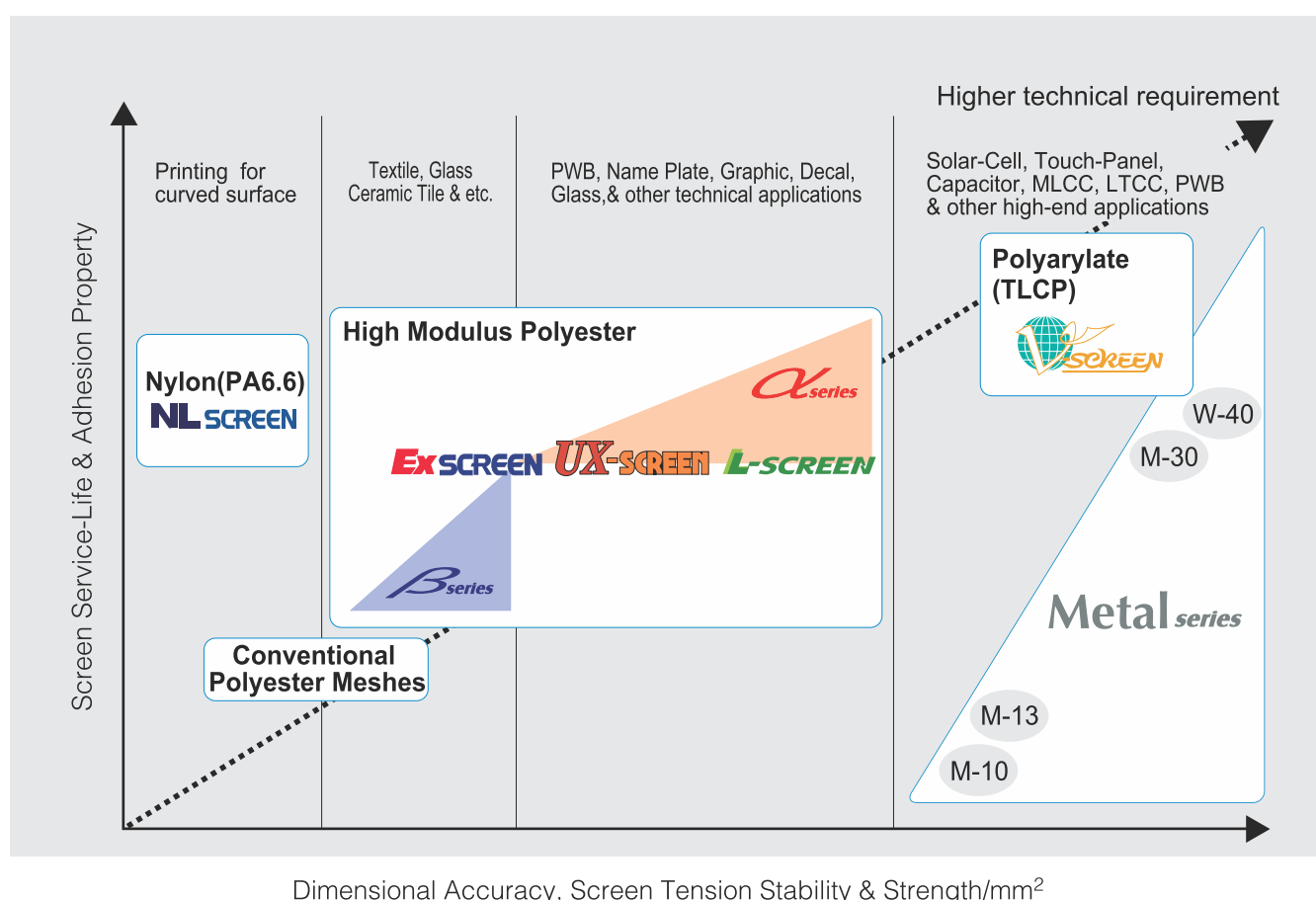


Japan



● Products Portfolio & Suitable Applications

The business creed of the company is "the basis of business is built on trust," meaning that our operations are based on establishing trusting relationships one by one by offering reliable technologies and products. Our corporate philosophy is as follows by adhering to quality as our first principle, we will contribute to society through customer satisfaction, thereby achieving company stability and prosperity, which will enhance employee welfare.





•Top quality guaranteed

Every roll of NBC polyester mesh is supplied with an inspection tag. While flaws are kept to a minimum by careful quality control, any flaw found under our thorough inspection is clearly marked to prevent it being stretched into your image area. Thickness and mesh count are precisely controlled and documented on the tag critical information for setting your production standards.

You will keep your presses running and save time spent troubleshooting. (In case you were wondering, NBC compensates for flaws by adding one half meter of mesh to the end of the roll free of charge for each flaw*...now that's value.)

Sold length		Extra compensation for partial weaving defect		Roll number	
Item	α UX Screen 120-035/305PW				
width	115cm	Roll No.	No 708A01091-01		
Material:	POLYESTER 100%	Warp Mesh/inch		Weft Mesh/inch	Thickness
Length	Extra	Catalogue Value	305	305	52
		Actual Value	304	306	51
30.0m	0.5m	MADE IN JAPAN			

Actual mesh count per inch

Actual mesh thickness

*α*series

Highest stretching tension value of NBC α series polyester monofilament meshes.

α series of NBC high modulus polyester mesh is further improved by optimized heat setting process and rigorous quality control system to minimize screen tension loss after stretching and printing process. The below diagram shows the comparison data in tension loss between α series and original mesh.

NLSCREEN

Nylon monofilament Screen Printing mesh

NL SCREEN, nylon monofilament mesh is well-suited for printing onto curved or rigid surfaces because of its flexibility and elasticity. NL SCREEN also has reliable mechanical resistance and good emulsion adhesion, making it suitable for printing with abrasive paste or substrate.

βseries

High modulus polyester mesh for general screen printing applications

β series is classic high modulus polyester monofilament mesh which is produced under NBC high quality standard. The dimensional accuracy and tension stability are kept at high level.

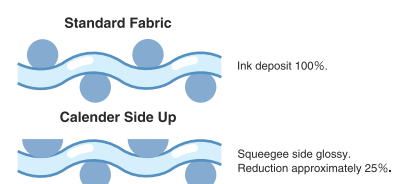
CATEX (Calendered)

One-Side Calendered polyester monofilament mesh

CATEX mesh reduces your ink consumption by 20-30%. Especially designed for high production clear coating where a minimum ink deposit is a priority.

CATEX can also be helpful when printing back-lighted panels where uniform ink deposit is extremely critical.

CATEX mesh is available up to 240cm wide.





High modulus polyester monofilament mesh for high quality screen printing applications

Thread type

L : Conjugated polyester monofilament (27µm - 30 µm)

UX: Super high modulus polyester monofilament (33µm - 45 µm)

EX: High modulus polyester monofilament

Category	Mesh Code	Mesh Count		Weaving	Thread Diameter	Mesh Thickness		Mesh Opening	Open Area	Theoretical Ink Volume	
		Tolerance ±3%				115-155cm	165cm & wider			115-155cm	165cm & wider
α_series Regular	L -200 -024/ 508 PW	200	508	1:1 PW	24	36±2µm	N/A	24	23	8.3	N/A
α_series Regular	L -200 -027/ 508 TW	200	508	2:2 TW	27	50±3µm	N/A	22	19	10.1	N/A
α_series Regular	L -180 -027/ 460 PW	180	460	1:1 PW	27	41±2µm	42±3µm	24	19	7.7	7.9
α_series Regular	L -180 -030/ 460 TW	180	460	2:2 TW	30	55±3µm	56±4µm	23	17	9.5	N/A
α_series Regular	L -165 -027/ 420 PW	165	420	1:1 PW	27	40±2µm	41±3µm	30	25	9.8	10.1
α_series Regular	L -165 -030/ 420 PW	165	420	1:1 PW	30	45±2µm	46±3µm	25	18	8.0	8.2
α_series Regular	UX165 -033/ 420 TW	165	420	2:2 TW	33	60±3µm	60±3µm	24	16	9.4	9.4
α_series Regular	L -150 -027/ 380 PW	150	380	1:1 PW	27	40±2µm	41±3µm	38	32	12.9	13.3
α_series Regular	L -150 -030/ 380 PW	150	380	1:1 PW	30	45±2µm	46±3µm	33	24	11.0	11.2
α_series Regular	UX150 -033/ 380 PW	150	380	1:1 PW	33	48±2µm	49±3µm	27	16	7.8	8.0
α_series Regular	UX150 -035/ 380 TW	150	380	2:2 TW	35	64±3µm	64±3µm	30	20	12.9	12.9
α_series Regular	L -140 -027/ 355 PW	140	355	1:1 PW	27	40±2µm	41±3µm	44	38	15.1	15.5
α_series Regular	L -140 -030/ 355 PW	140	355	1:1 PW	30	45±2µm	46±3µm	39	30	13.4	13.7
α_series Regular	UX140 -035/ 355 PW	140	355	1:1 PW	35	53±2µm	54±3µm	32	19	10.3	10.5
α_series Regular	UX140 -035/ 355 TW	140	355	2:1 TW	35	61±3µm	61±3µm	34	23	13.8	13.8
α_series Regular	L -130 -027/ 330 PW	131	334	1:1 PW	27	40±2µm	41±3µm	49	42	16.6	17.0
α_series Regular	L -130 -030/ 330 PW	131	334	1:1 PW	30	45±2µm	46±3µm	44	33	15.1	15.4
α_series Regular	UX130 -035/ 330 PW	130	330	1:1 PW	35	53±2µm	54±3µm	38	24	12.9	13.2
α_series Regular	L -124 -027/ 315 PW	124	315	1:1 PW	27	40±2µm	41±3µm	54	45	17.9	18.4
α_series Regular	L -124 -030/ 315 PW	124	315	1:1 PW	30	45±2µm	46±3µm	49	37	16.6	17.0
α_series Regular	L -120 -030/ 305 PW	120	305	1:1 PW	30	46±2µm	46±3µm	53	41	18.6	18.6
α_series Regular	UX120 -033/ 305 PW	120	305	1:1 PW	33	50±2µm	51±3µm	47	32	15.9	16.2
α_series Regular	UX120 -035/ 305 PW	120	305	1:1 PW	35	53±2µm	54±3µm	45	29	15.5	15.8
α_series Regular	UX120 -040/ 305 PW	118	300	1:1 PW	40	62±2µm	62±3µm	37	19	11.8	11.8
α_series Regular	UX110 -035/ 280 PW	110	280	1:1 PW	35	53±2µm	54±3µm	53	34	18.1	18.4
α_series Regular	UX106 -040/ 270 PW	106	270	1:1 PW	40	60±2µm	61±3µm	49	27	16.3	16.6
α_series Regular	UX100 -035/ 255 PW	100	255	1:1 PW	35	53±2µm	54±3µm	64	41	21.9	22.3
α_series Regular	UX100 -040/ 255 PW	100	255	1:1 PW	40	60±2µm	61±3µm	56	32	19.0	19.3
α_series Regular	EX100 -048/ 255 PW	100	255	1:1 PW	48	76±2µm	76±3µm	45	20	15.5	15.5
α_series Regular	UX 90 -040/ 230 PW	90	230	1:1 PW	40	60±2µm	61±3µm	67	37	22.1	22.5
α_series Regular	UX 90 -045/ 230 PW	90	230	1:1 PW	45	68±2µm	69±3µm	60	30	20.1	20.4
α_series Regular	EX 90 -048/ 230 PW	88	225	1:1 PW	48	75±2µm	76±3µm	58	26	19.8	20.1
α_series Regular	EX 90 -055/ 230 TW	88	225	2:1 TW	55	91±4µm	95±5µm	54	23	20.8	21.7
α_series Regular	EX 90 -071/ 230 TW	88	225	3:1 TW	71	139±10µm	N/A	38	11	15.7	N/A
α_series Regular	UX 90 -33x2/ 230 PW	90	230	1:1 PW	33	51±2µm	52±3µm	40	13	6.7	6.8
α_series Regular	UX 79 -045/ 200 PW	79	200	1:1 PW	45	68±2µm	69±3µm	81	41	27.7	28.1
α_series Regular	EX 79 -048/ 200 PW	79	200	1:1 PW	48	75±2µm	76±3µm	75	35	26.2	26.5
α_series Regular	EX 79 -055/ 200 PW	79	200	1:1 PW	55	88±4µm	88±4µm	69	30	26.0	26.0

Remark: The above catalogue value may be changed for quality improvement without notice.

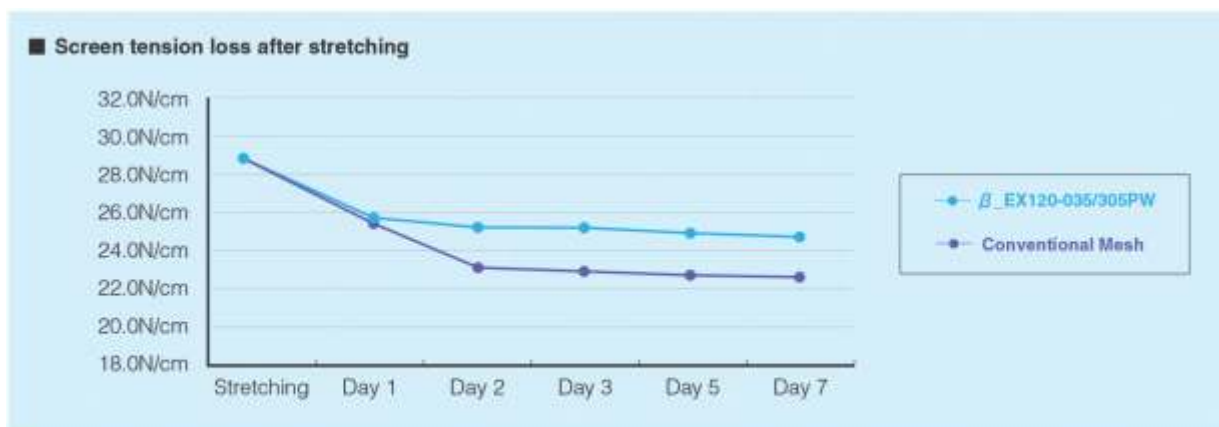
Category	Mesh Code	Mesh Count		Weaving	Thread Diameter	Mesh Thickness		Mesh Opening	Open Area	Theoretical Ink Volume	
		Tolerance ±3%				115-155cm	165cm & wider			115-155cm	165cm & wider
α_series Regular	UX 71 -045/ 180 PW	71	180	1:1 PW	45	70±2μm	72±3μm	95	45	31.7	32.6
α_series Regular	EX 71 -048/ 180 PW	71	180	1:1 PW	48	76±2μm	78±4μm	91	42	31.6	32.4
α_series Regular	EX 71 -055/ 180 PW	71	180	1:1 PW	55	88±4μm	88±4μm	85	36	31.9	31.9
α_series Regular	EX 71 -063/ 180 PW	71	180	1:1 PW	63	98±5μm	N/A	71	25	24.8	N/A
α_series Regular	EX 63 -048/ 160 PW	63	160	1:1 PW	48	76±2μm	78±4μm	110	48	36.5	37.5
α_series Regular	EX 63 -063/ 160 PW	63	160	1:1 PW	63	105±5μm	105±5μm	93	34	36.0	36.0
α_series Regular	EX 63 -071/ 160 PW	63	160	1:1 PW	71	116±6μm	116±6μm	79	25	28.7	28.7
α_series Regular	UX 59 -045/ 150 PW	59	150	1:1 PW	45	72±2μm	74±4μm	124	54	38.6	39.7
α_series Regular	EX 59 -048/ 150 PW	59	150	1:1 PW	48	76±2μm	78±4μm	120	50	38.2	39.2
α_series Regular	EX 59 -055/ 150 PW	59	150	1:1 PW	55	88±4μm	88±4μm	114	45	39.9	39.9
α_series Regular	EX 59 -063/ 150 PW	59	150	1:1 PW	63	105±5μm	105±5μm	104	38	39.9	39.9
α_series Regular	EX 59 -071/ 150 PW	59	150	1:1 PW	71	116±6μm	116±6μm	91	29	33.5	33.5
α_series Regular	EX 55 -063/ 140 PW	55	140	1:1 PW	63	105±5μm	105±5μm	116	41	43.2	43.2
α_series Regular	EX 55 -080/ 140 PW	55	140	1:1 PW	80	140±7μm	140±7μm	97	29	40.0	40.0
α_series Regular	UX 53 -045/ 135 PW	53	135	1:1 PW	45	73±4μm	74±4μm	143	58	42.2	42.7
α_series Regular	EX 53 -048/ 135 PW	53	135	1:1 PW	48	79±4μm	79±4μm	139	55	43.1	43.1
α_series Regular	EX 53 -055/ 135 PW	53	135	1:1 PW	55	95±5μm	95±5μm	133	50	47.5	47.5
α_series Regular	EX 49 -071/ 125 PW	49	125	1:1 PW	71	116±6μm	116±6μm	130	41	47.6	47.6
α_series Regular	UX 47 -045/ 120 PW	47	120	1:1 PW	45	73±4μm	74±4μm	167	62	45.4	46.1
α_series Regular	EX 47 -048/ 120 PW	47	120	1:1 PW	48	80±4μm	80±4μm	163	59	47.4	47.4
α_series Regular	EX 47 -055/ 120 PW	47	120	1:1 PW	55	95±5μm	95±5μm	157	55	52.3	52.3
α_series Regular	EX 47 -063/ 120 PW	47	120	1:1 PW	63	105±5μm	105±5μm	149	50	52.0	52.0
α_series Regular	EX 47 -080/ 120 PW	47	120	1:1 PW	80	137±7μm	137±7μm	130	38	51.4	51.4
α_series Regular	EX 43 -080/ 110 PW	43	110	1:1 PW	80	132±7μm	132±7μm	150	42	55.7	55.7
α_series Regular	EX 39 -055/ 100 PW	39	100	1:1 PW	55	95±5μm	95±5μm	199	61	58.3	58.3
α_series Regular	EX 39 -071/ 100 PW	39	100	1:1 PW	71	122±6μm	122±6μm	182	51	62.6	62.6
α_series Regular	EX 39 -080/ 100 PW	39	100	1:1 PW	80	134±7μm	134±7μm	174	47	62.9	62.9
α_series Regular	EX 35 -071/ 90 PW	35	90	1:1 PW	71	125±5μm	125±5μm	210	55	69.2	69.2
α_series Regular	EX 35 -080/ 90 PW	35	90	1:1 PW	80	137±7μm	137±7μm	202	51	70.2	70.2
α_series Regular	EX 31 -055/ 80 PW	31	80	1:1 PW	55	95±5μm	95±5μm	263	69	65.2	65.2
α_series Regular	EX 31 -071/ 80 PW	31	80	1:1 PW	71	125±6μm	125±6μm	246	60	75.0	75.0
α_series Regular	EX 31 -100/ 80 PW	31	80	1:1 PW	100	170±9μm	170±9μm	218	47	80.1	80.1
α_series Regular	EX 27 -055/ 70 PW	27	70	1:1 PW	55	95±5μm	95±5μm	308	72	68.4	68.4
α_series Regular	EX 27 -071/ 70 PW	27	70	1:1 PW	71	125±6μm	125±6μm	291	64	80.4	80.4
α_series Regular	EX 27 -125/ 70 PW	27	70	1:1 PW	125	230±23μm	230±23μm	238	43	98.9	98.9
α_series Regular	EX 24 -125/ 60 PW	24	60	1:1 PW	125	230±23μm	230±23μm	298	50	114.0	114.0
α_series Regular	EX 24 -150/ 60 PW	24	60	1:1 PW	150	280±28μm	N/A	271	41	114.7	N/A
α_series Regular	EX 20 -200/ 50 PW	20	50	1:1 PW	200	380±38μm	N/A	308	37	139.7	N/A
α_series Regular	EX 16 -200/ 40 PW	16	40	1:1 PW	200	400±40μm	N/A	435	47	187.7	N/A
α_series Regular	EX 12 -150/ 30 PW	12	30	1:1 PW	150	290±29μm	N/A	696	68	256.8	N/A
α_series Regular	EX 12 -250/ 30 PW	12	30	1:1 PW	250	500±50μm	N/A	597	50	248.6	N/A
α_series Regular	EX 10 -300/ 25 PW	15	25	1:1 PW	300	625±62μm	N/A	716	50	298	N/A

Remark: The above catalogue value may be changed for quality improvement without notice.



High modulus polyester mesh for general screen printing applications

β series is classic high modulus polyester monofilament mesh which is produced under NBC high quality standard. The dimensional accuracy and tension stability are kept at high level.



Category	Mesh Code	Mesh Count		Weaving	Thread Diameter	Mesh Thickness		Mesh Opening	Open Area	Theoretical Ink Volume	
		Tolerance ±3%				115-155cm	165cm & wider			115-155cm	165cm & wider
		/cm	/Inch			μm	μm			μm	μm
β_series	EX 120 -035/ 305 PW	120	305	1:1 PW	35	53 ±2μm	54 ±3μm	45	29	15.5	15.8
β_series	EX 120 -040/ 305 PW	118	300	1:1 PW	40	62 ±2μm	62 ±3μm	37	19	11.8	11.8
β_series	EX 110 -035/ 280 PW	110	280	1:1 PW	35	53 ±2μm	54 ±3μm	53	34	18.1	18.4
β_series	EX 106 -040/ 270 PW	106	270	1:1 PW	40	60 ±2μm	61 ±3μm	49	27	16.3	16.6
β_series	EX 100 -040/ 255 PW	100	255	1:1 PW	40	60 ±2μm	61 ±3μm	56	32	19.0	19.3
β_series	EX 100 -048/ 255 PW	100	255	1:1 PW	48	76 ±2μm	76 ±3μm	45	20	15.5	15.5
β_series	EX 90 -040/ 230 PW	90	230	1:1 PW	40	60 ±2μm	61 ±3μm	67	37	22.1	22.5
β_series	EX 90 -045/ 230 PW	90	230	1:1 PW	45	68 ±2μm	69 ±3μm	60	30	20.1	20.4
β_series	EX 90 -048/ 230 PW	88	225	1:1 PW	48	75 ±2μm	76 ±3μm	58	26	19.8	20.1
β_series	EX 79 -045/ 200 PW	79	200	1:1 PW	45	68 ±2μm	69 ±3μm	81	41	27.7	28.1
β_series	EX 79 -048/ 200 PW	79	200	1:1 PW	48	75 ±2μm	76 ±3μm	75	35	26.2	26.5
β_series	EX 71 -045/ 180 PW	71	180	1:1 PW	45	70 ±2μm	72 ±3μm	95	45	31.7	32.6
β_series	EX 71 -048/ 180 PW	71	180	1:1 PW	48	76 ±2μm	78 ±4μm	91	42	31.6	32.4
β_series	EX 63 -048/ 160 PW	63	160	1:1 PW	48	76 ±2μm	78 ±4μm	110	48	36.5	37.5
β_series	EX 59 -045/ 150 PW	59	150	1:1 PW	45	72 ±2μm	74 ±4μm	124	54	38.6	39.7
β_series	EX 59 -048/ 150 PW	59	150	1:1 PW	48	76 ±2μm	78 ±4μm	120	50	38.2	39.2
β_series	EX 53 -045/ 135 PW	53	135	1:1 PW	45	73 ±4μm	74 ±4μm	143	58	42.2	42.7
β_series	EX 53 -048/ 135 PW	53	135	1:1 PW	48	79 ±4μm	79 ±4μm	139	55	43.1	43.1
β_series	EX 47 -045/ 120 PW	47	120	1:1 PW	45	73 ±4μm	74 ±4μm	167	62	45.4	46.1
β_series	EX 47 -048/ 120 PW	47	120	1:1 PW	48	80 ±4μm	80 ±4μm	163	59	47.4	47.4

Remark: The above catalogue value may be changed for quality improvement without notices.

■ Comparison of technical features

Products		Material	Tensile Strength	Dimensional Stability	Adhesion with Emulsion	Anti-Static Capability	Color Availability	Suitable Applications
V-Screen		TLCP (Thermotropic Liquid Crystal Polyarylate)	2100N/mm ²	Top Level Long Run Press	Good	N/A	Beige	Solar Cell, MLCC, LTCC, PWB, LCD, TSP & etc.
Metal series	M-10	SUS 304	1000N/mm ²	Top Level	Good	Effective for Press	Metallic	Solar Cell, PWB, Capacitor, HIC, Bottle, Hotmelt Ink, & etc.
	M-13	SUS 304	1300N/mm ²	Top Level	Good	Effective for Press	Metallic	Solar Cell, Capacitor, HIC, PWB & etc.
	M-30	Super SUS	3000N/mm ²	Top Level	Good	Effective for Press	Metallic	Solar Cell, MLCC, LTCC, HIC & etc.
	W-40	Tungsten	4000N/mm ²	Top Level	Good	Effective for Press	Metallic	Solar Cell, MLCC, LTCC, HIC & etc.
	HDM	SUS 304	1000N/mm ²	Top Level	Good	Effective for Press	Metallic	Thick-Film, Ceramic Decal & etc.
αseries	L-Screen	Conjugated High Modulus Polyester	850N/mm ²	Excellent	Excellent	Effective till Degreasing	White Amber Lemon	PWB, Graphic, DVD, Name Plate, Decal, Glass, Bottles, Textile & etc.
	UX Screen	Super High Modulus Polyester	790N/mm ²	Excellent	Excellent	Effective till Degreasing	White Amber Lemon	
	EX Screen	High Modulus Polyester	600N/mm ² or higher	Excellent	Excellent	Effective till Degreasing	White Amber Lemon	
AS Screen		High Modulus Polyester	600N/mm ² or higher	Excellent	Excellent	Effective for Press	White Amber Lemon	Plastic Substrate
CATEX	L-Screen	Conjugated High Modulus Polyester	850N/mm ²	Good	Good	Effective till Degreasing	White Amber Lemon	Graphic & Clear Coat
	UX Screen	Super High Modulus Polyester	790N/mm ²	Good	Good	Effective till Degreasing	White Amber Lemon	Graphic & Clear Coat
	EX Screen	High Modulus Polyester	600N/mm ² or higher	Good	Good	Effective till Degreasing	White Amber Lemon	Graphic & Clear Coat
βseries	EX Screen	High Modulus Polyester	600N/mm ² or higher	Good	Good	N/A	White Amber Lemon	Textile, Garments, Glass, Ceramic Tile, & etc.
NL Screen		Nylon (PA 6.6)	450N/mm ² or higher	Unsuitable	Excellent	N/A	White Amber	Bottle, Container & Curved Surface

■ Production process for synthetic screen printing mesh

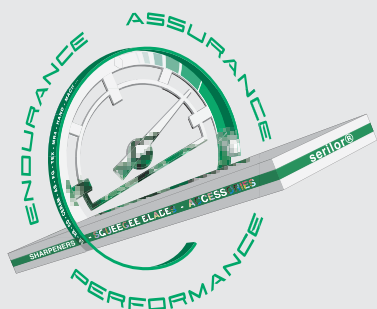






POLYURETHANE
SOLUTIONS
FOR ALL INDUSTRIES

SCREEN PRINTING
METALWORKING
PRINTING
CLEANING
RAILWAY
CARPENTRY & GLASS
MINES & QUARRIES
PUBLIC WORKS
AGRICULTURE & BREEDING
EQUESTRIAN WORLD
SPORTS & LEISURE
NAVAL EQUIPMENT & DOCKS
TRUNKS, TRAILERS & TRUCKS (...)



FIMOR

POLYURETHANE ELASTOMER SHEETS AND STRIPS

Since 1977, Fimor is a recognized as a leading manufacturer of polyurethane squeegees and related accessories for screen printing. Fimor is distributed in over 80 countries through a network of over 300 active distributors covering all segments of screen printing (industry, electronic, glass, textile, label, commercial graphics...). In 1982, the first color coded screen printing squeegees was introduced by Fimor, setting new world standards.

Fimor headquarters and production facilities located in Le Mans, France, are ISO 9001 and ISO 14001 certified. The company has developed products suitable for most screen printing applications, ensuring the stability of the printing process. Fimor's squeegees are produced by centrifugation to guarantee homogeneous thickness and bubble-free surfaces.

The serilor[®] SR, HR, LC and all Fimor's compounds have been developed to offer both exceptional abrasion and chemical resistance to aggressive solvents or oils.

Fimor is specialized in advanced multi-layer lamination to combine benefits of low hardness PU (flexibility) and high hardness PU (tear and abrasion resistant). Serilor blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Fimor exclusive computer controlled casting process guarantees batch to batch consistency.



serilor® HR

High resistance squeegee

● **serilor® HR** is a special polyurethane blade with exceptional combined resistance to chemicals and abrasion. It was developed to withstand the toughest applications in screen printing and to have a long shelf life in most environments.

serilor® HR blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Our exclusive computer controlled casting process guarantees batch to batch consistency

ADVANTAGES :

- Maximum resistance to chemicals
- Maximum resistance to abrasion
- High environment stability (temperature, humidity)
- Sharpens well
- Individual package protects from light and dust
- Individual batch and reference ink jet marking on blade
- High test inspection for aspect defects

APPLICATIONS :

- Graphics multi-purpose
- Graphics specialities (electronics, industrial....)
- Object / Container printing
- Automated textile printing
- Manual or automatic equipment use

● **Marking: serilor® HR[1 or 3 or 5] length X width X thickness Profile hardness [batch N°]**
MADE IN FRANCE

● serilor® HR1 -Mono layer standard references

- soft 65shA white
- medium 75shA white
- hard 85shA white

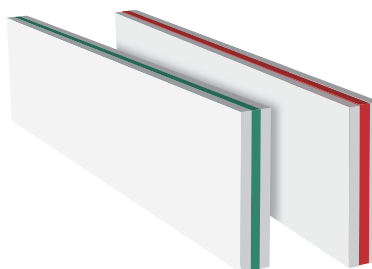
*60,70,80,90 and other
durometers are available as specials*



● serilor® HR3 -Triple layer standard references

Triple medium (75/90/75shA)
white/Green/white

Triple soft (65/90/65shA)
white/Red/white



serilor® SR

Standard resistance squeegee

● **serilor®SR** is an all purpose polyurethane blade with good combined resistance to chemicals and abrasion. It was developed to withstand various applications in screen printing. The industry standard S1 is a universal grade, your ideal choice for non critical abrasive application or when using common screen inks.

serilor®SR blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Our exclusive computer controlled casting process guarantees batch to batch consistency

ADVANTAGES :

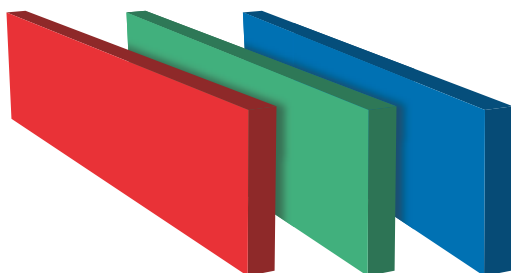
- Good resistance to chemicals & abrasion
- Resistance to abrasion
- Sharpens easy
- Color coded for easy identification
- High environment stability
- Individual package and batch

APPLICATIONS :

- Graphics multi-purpose
- Textile printing
- Manual or automatic equipment use

- **Marking: serilor®SR[1 or 3] length X width X thickness Profile hardness [batch N°]**
MADE IN FRANCE

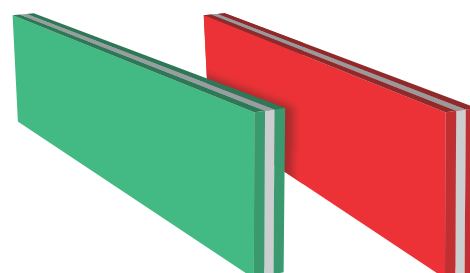
● serilor®SR1 - Mono layer standard references



soft 65shA medium 75shA hard 85shA
red green blue

*60,70,80,90 and other durometers are available as specials.
Other colors on request.*

● serilor®SR3 - Triple layer standard references



Triple medium Triple soft
(75/90/75shA) (65/90/65shA)
Green/white/Green Red/white/Red

serilor[®] LC

Value squeegee line

Fimor has developed a new polyurethane formulation to achieve performance at an attractive price. Available in a limited range of dimensions/hardness combinations, serilor[®] LC is the right choice for non critical applications ranging from textile to graphic printing. With the new serilor LC, why settle for an unknown brand when you can get the quality and consistency of a leading manufacturer. serilor[®] LC blades are manufactured with a centrifugation process to avoid bubbles and craters in the material and to bring optimal homogeneity to the compound, even at the core of the material and after grinding. Our exclusive computer controlled casting process guarantees batch to batch consistency

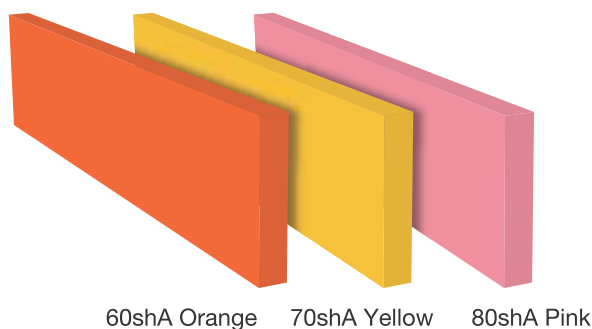
ADVANTAGES :

- Competitively priced
- Non-compromising performances
- Easy sharpening
- Color coded for quick identification

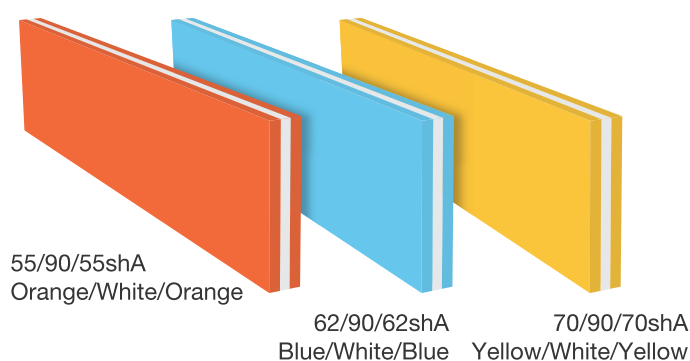
APPLICATIONS :

- Textile printing
- Graphics multi-purpose
- Ideal for use with less aggressive solvents

• serilor[®] LC1-Mono layer standard references



• serilor[®] Lc3 - Triple layer standard references





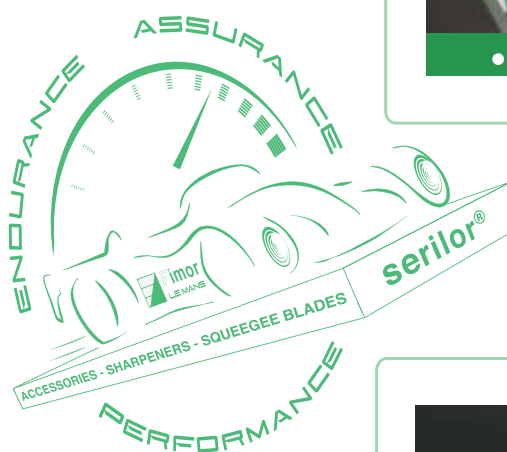
• serilor® LC



• serilor® SR1 & Sr3



• serilor® CD



• serilor® D Diamond



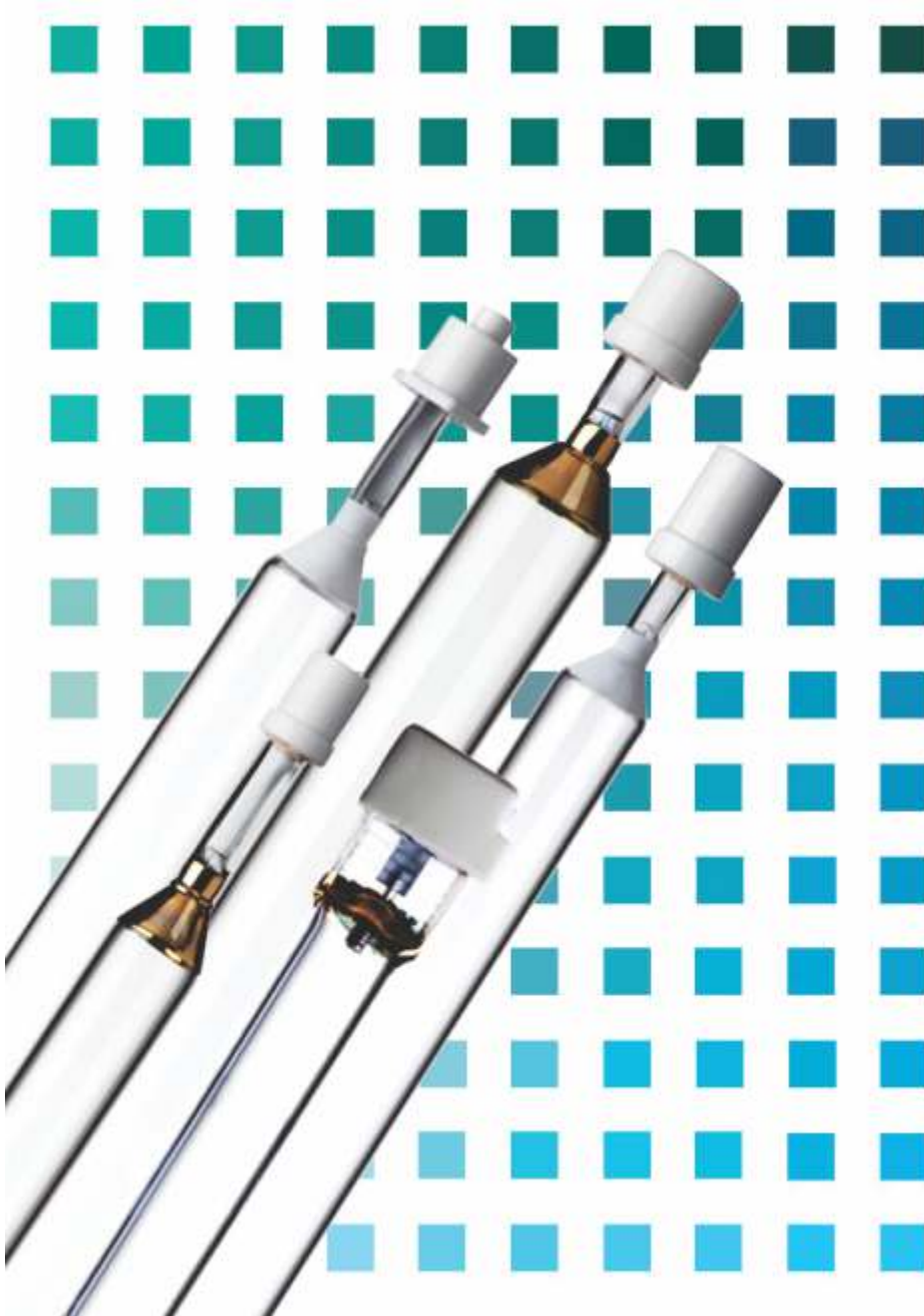
• serilor® CERAM



• serilor Hr1® & HR3



SPECIALIST MANUFACTURER OF ULTRAVIOLET LAMPS



GLOBAL OFFICES:

UNITED KINGDOM – CHINA – AUSTRALIA – FRANCE



ALPHA-CURE

SPECIALIST MANUFACTURER OF ULTRAVIOLET LAMPS

Established in Great Britain in 1996, Alpha-Cure is a specialist manufacturer of ultraviolet (UV) curing lamps, metal halide lamps, and UV curing accessories. We are committed to delivering industry advancements in UV lamp design and technology, in partnership with leading UV system and machine manufacturers throughout the world.

The partners boast over 160 years of technical expertise within the UV lamp manufacturing industry. We understand the necessity for a premium product required in the printing, bonding and coating industries. As such our dedicated R&D departments in the UK continuously innovate, introducing new and improved products to our extensive portfolio of over 20,000 UV lamp types.

As part of our full service we also supply all UV accessories; UV system reflectors, quartz plates, quartz cooling tubes, UV measuring equipment, mercury spill kits, high voltage cable, capacitors, electronic power supplies and transformers.



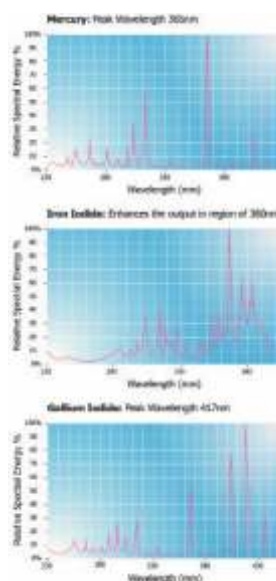
United Kingdom

● PRODUCT RANGE



BESPOKE UV LAMP DESIGNS TO MEET YOUR EXACT REQUIREMENTS:

- Medium Pressure
> Mercury
- Metal Halide
> Gallium
> Iron
- Low Pressure, Low Output
- Low Pressure, High Output (Amalgam Lamps)
- Infrared
- UV LED



LAMP POWER RATINGS & SIZE RANGE

- 50 to 550 W/cm
- 200 watts to 50 kilowatts
- 3cm to 3.5m arc length
- 10mm to 46mm diameter
- Roll Seal
- Pinch Seal
- 150 Socket Types (Ceramic & Metal)

Alpha-Cure manufactures equivalents to all leading lamps produced in Europe, North America and The Far East.

● UV PROCESSES



Ultraviolet radiation lamp technology is used in numerous industrial processes and vertical market sectors across the globe.



UV PRINTING, COATING, VARNISHING & BONDING INDUSTRY SECTORS:

- Security & Money
- Electronics
> Printed Circuit Boards (PCB)
> Touch & Flat Screens
> Optical Media
- Automotive
- Pharmaceutical
- Packaging
- Woodworking
- Cosmetics



- Marble & Granite
- Food & Beverage
- Print & Graphics



UV PRINTING PROCESSES:

- Metal, Cardboard, Plastic & Glass Decorating
- Digital
- Label
- Silk Screen
- Flexo
- Letterpress
- Offset
- Litho
- Narrow & Wide Web
- Sheet Fed



● DEDICATED RESEARCH AND DEVELOPMENT TEAM

Established in 1996, Alpha-Cure is committed to delivering industry advancements in ultraviolet lamp design and technology, in partnership with leading system manufacturers throughout the world.

Our dedicated R&D departments continuously develop and introduce new and improved products to our extensive portfolio, ensuring the highest level of customer satisfaction and support.

● LAMP ACCESSORIES

- Electronic Power Supplies
- Transformers / Lamp Ballasts
- Chokes, Ignitors & Capacitors
- System Reflectors
- Quartz Plates
- Quartz Cooling Tubes
- UV Measurement, Monitoring & Control
- Mercury Spill Kits
- High Voltage Cable

● ULTRAVIOLET LAMPS FOR EVERY UV SYSTEM

Highly trained technical and commercial staff are ready to assist you with your lamp enquiries.

MATERIAL INSPECTION

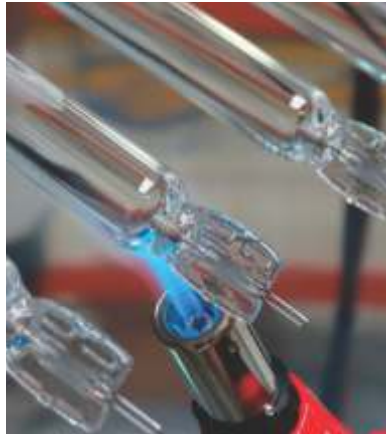
All manufactured lamps and components must pass

Alpha-Cure's rigorous in-house inspection procedures.



● QUALITY PROMISE

- Delivering the Highest Quality Product
- Individually Handmade
- Unrivalled Manufacturing Processes
- Advanced Components
 - > Highest Grade Vacuum Baked Quartz
 - > Ultra-High Purity Noble Gases
 - > Mercury Purity Reaching Levels of 99.995%



● ALPHA-CURE'S GLOBAL DISTRIBUTION NETWORK

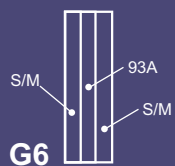
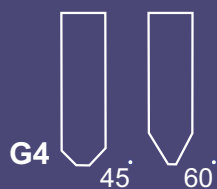
Our extensive global distribution network enables Alpha-Cure to efficiently deliver to our customers wherever you are in the world.



As we continue to grow as leaders in the UV lamp manufacturing industry, we are keen to engage and grow our partner distribution channel with exceptional organisations within established or growing territories, in order to strengthen our customer service promise to you.



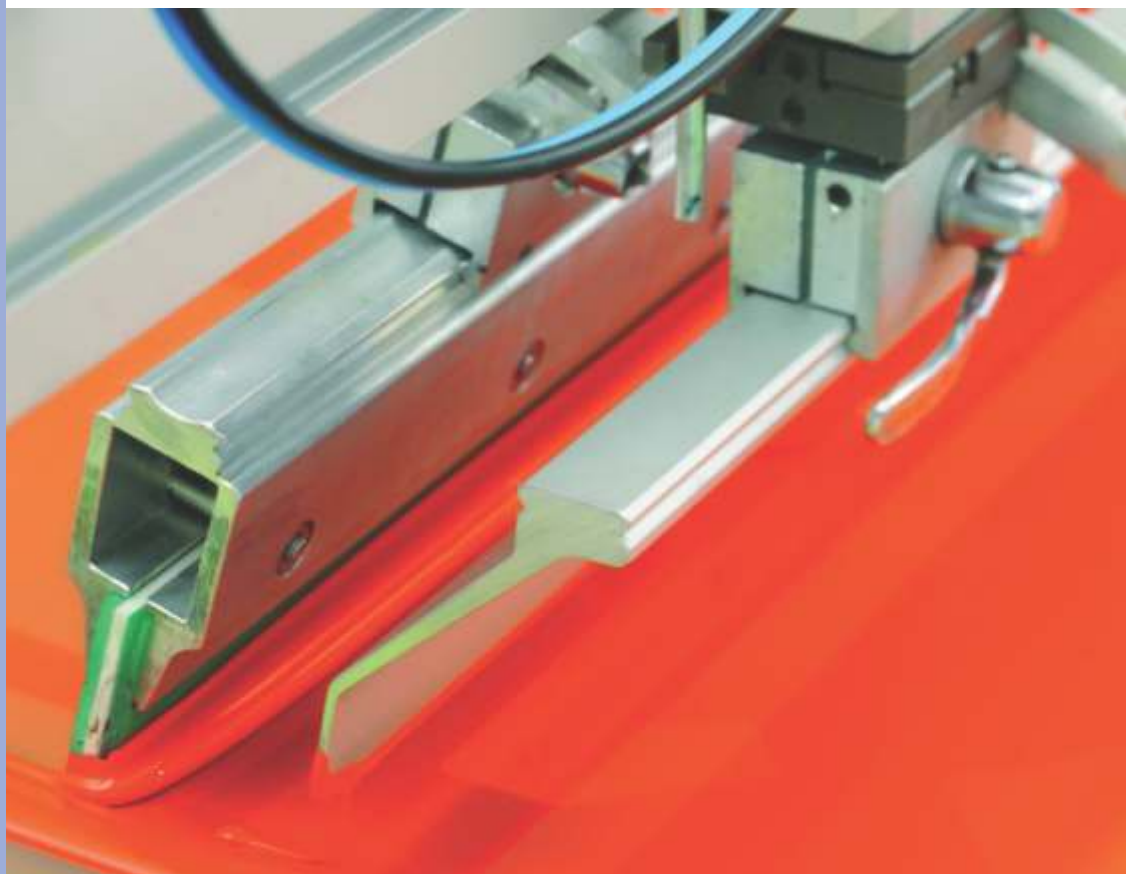
 **Watts**
Urethane
Products



Watts
Urethane
Products



Over 45 years experience in designing, developing
and manufacturing premium polyurethane products



Watts

EDGE OF PERFECTION

At Watts Urethane, we are one of the world's leading manufacturers of Print squeegee blades for screen printing. For over 35 years we have produced dependable and consistent squeegee blades of the highest quality for a wide range of industries and our Print Squeegee blade edges are known to be the best in the industry as a result of our precise linear cutting technology. The edges of Watts Blades are regarded amongst the best in the industry, using CNC Cutting Technology for a precise Linear Cut.

We have considerable production capabilities for squeegee blades and are proud to offer the widest range of premium value materials and products of any manufacturer globally, exporting to over 80 countries world-wide.



United Kingdom

Watts Squeegee offers the widest range of materials to the squeegee market. We have worked closely with our suppliers to create polyurethanes to suit specific applications. Some of our squeegee materials will work in both the floor and screen printing industries, whereas some are currently focused on the individual industries.

These materials can be manufactured in various hardness' ranging from a 40 Shore A (soft eraser), up to a 72 Shore D (the same as nylon). All materials are stored, prepared and processed as per our supplier's recommendations and cast through sophisticated, computer-controlled dispensing equipment, which ensures the end component has the maximum properties to suit our customers' requirements.



● Standard Range (Dimensions, Hardness and Colours):

Our squeegees are available in a standard range of dimensions, hardness and resulting colours:

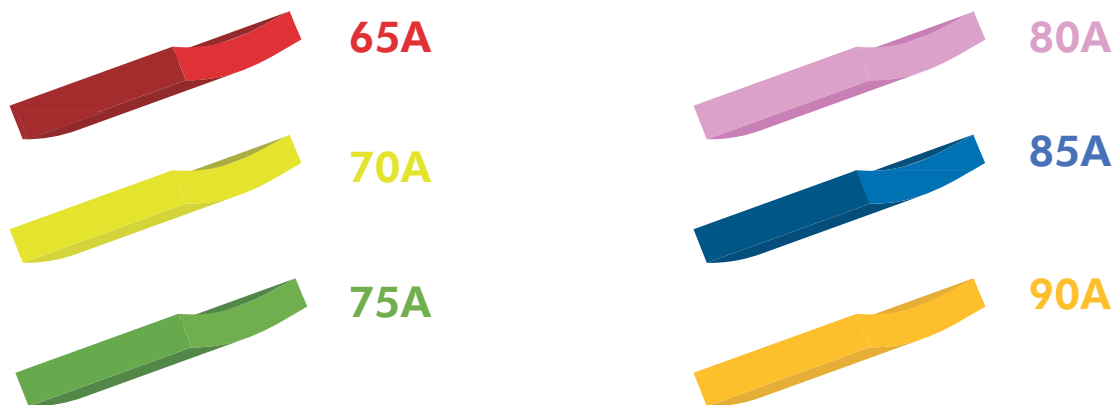
Hardness SH: 60 - 90 Shore A

Length: up to 3715mm depending on profile.

Width: we can cut to any width up to 660mm.

Thickness: Range available is from 4mm up to 12mm. Standard stock thicknesses are 5mm & 9mm.

Colours: Our standard range of squeegee blades will be as per the below colours according to hardness range.



● Non-standard print squeegee blade requirements

Non-standard colour to hardness requirements are available against a minimum order quantity of 3 sheets worth of print squeegee blades for any profile design. Please note that lead times will vary at the point of order and the price will reflect the additional change over costs. The typical blade design to quantities from a sheet will be in-line with the above chart.



Squeegee Features

	Features and Benefits	Applications	Hardness Range
2000SERIES	<ul style="list-style-type: none"> • High Tolerance to UV Systems • Very good all round properties • High Abrasion Resistance • High Cut Resistance • Free from additives for a cleaner print when using Sensitive Print Media • High Solvent Resistance • High tolerance to Plastisols 	<p>High all round performance, ideal for use in a wide range of printing applications including:</p> <ul style="list-style-type: none"> • Bottle • Ceramic • CD / DVD • Decal • Electronic / PCB • Glass • Graphic • Textile • Industrial • Solar / PV 	60 □ 90 Shore A
5000SERIES	<ul style="list-style-type: none"> • Very High Abrasion Resistance • Very high Edge Retention • High Strength • High Solvent Resistance • Vulkollan® Material 	<p>Very high Abrasion Resistance, performs very well when glass printing using hot enamels.</p> <ul style="list-style-type: none"> • Bottle • Ceramic • Electronic / PCB • Glass • Industrial • Solar / PV 	55 □ 95 Shore A
7000SERIES	<ul style="list-style-type: none"> • High Tolerance to UV Systems • Good General Use • Extremely Good Value 	<p>A good all round product, most suitable for textile printing.</p> <ul style="list-style-type: none"> • Textile • Industrial 	45 □ 90 Shore A
8000SERIES	<ul style="list-style-type: none"> • Very High Tolerance to UV Systems • Very High Solvent Resistance • High Energy Absorption / Low Energy Release 	<p>Very high Solvent and Chemical Resistance. Performs well in applications typically favouring moulded squeegee blades. A low energy release blade that can eliminate □kick back□ in large format applications.</p> <ul style="list-style-type: none"> • Bottle • Decal • Electronic / PCB • Graphic • Industrial • Solar / PV 	60 □ 90 Shore A

peyer^{FOILS}



peyer

FOILS

peyer

Market Segments

Cosmetics

metic packaging

Hot Stamping Foil



Tubes



Five Layers Of
Hot Stamping
Foil



Technical parts



Full surface stamping



Peyer Décor

IMPRESSIVE IMPACT

Peyer Decor is a leading provider of exclusive finishing solutions that enhance products and packaging.

With innovative embossing and transfer technologies, the company transforms surfaces into impressive brand experiences. Whether for cosmetic packaging, household appliances, or premium packaging, Peyer Decor sets design trends and creates sustainable, high-quality effects.

As part of the Peyer Group, the company stands for top-quality, creativity, and customized solutions. With its EZ-DECO technology, Peyer Decor offers brilliant finishing effects for glass, plastic, and aluminum, featuring fine gradient transitions, deep color intensity, and a full color spectrum.

Why Choose Peyer Decor ?

- Innovative Designs – Setting new trends in surface finishing
- Sustainable & High-Quality Effects – Long-lasting, eco-friendly solutions
- Customized Solutions – Tailored to meet unique brand requirements



Switzerland

- **Unlimited possibilities for customized application and more...**



Customized finishing solutions that not only make your brand shine, but also score with sustainable and efficient embossing and transfer processes! Give your products and packaging that decisive wow effect – with customized solutions that visually inspire and make a lasting Impression.



● INNOVATIVE GLASS FINISHING

When it comes to product packaging, attractiveness, eye-catching design and colour, as well as properly conveying the value of the contents are at the top of the list for consumers. Extensive research has shown that the attractiveness of product packaging has a decisive influence on purchasing decisions at the POS.

Until recently, due to complex decoration processes, these marketing benefits have only been leveraged to a limited extent for glass.

Peyer has used this as an opportunity for innovation and, together with paint manufacturer Marabu, developed a new system for foil decoration on glass packaging. The new GX series foils, in conjunction with UV lacquer systems, are ideal for refining perfume flacons, as well as bottles for spirits or wines.

This technology meets all industry product durability requirements and requires less energy and space, with the high cycle rate making it extremely economical.

peyer's GX series foils for glass are available in gold and silver, and all metallic colours, as well as with holographic effects. The tried and tested GL series is of course still available for conventional glass finishing using solvent-based paint systems.



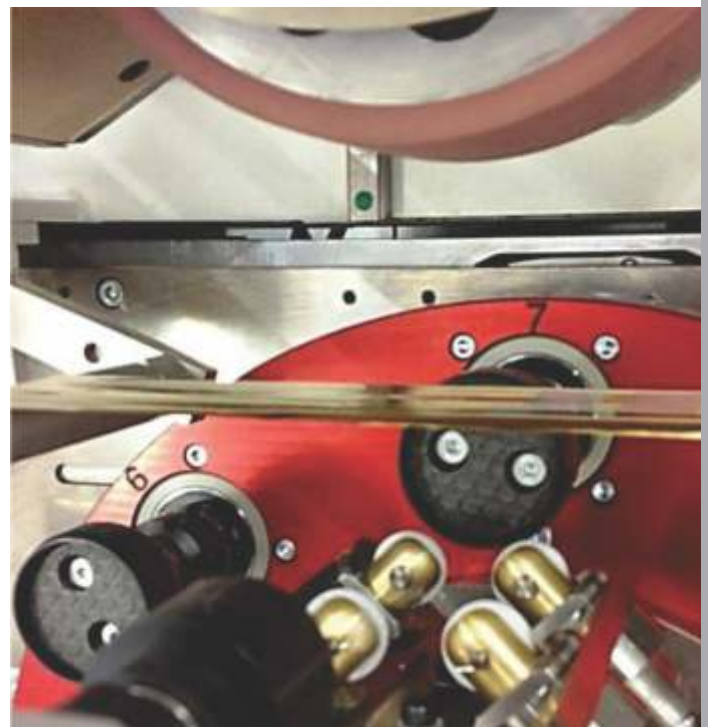
● Hot stamping onto glass

Precious metals are often used for the decoration of high-end products. Despite continuous improvement, organic gold and silver inks have never been able to reach the look of the expensive precious metal preparations which must be baked at high temperatures. The Ultraglass UVGL Primers, in combination with hot stamping foils, are now the perfect solution: Equal brilliance at much lower costs!



Any favoured design can simply be printed with UVGL Primers on the glass surface. The printed motif then acts as a cliché for the hot stamping foil which is applied by roll-on or stroke-stamping, and only adheres to the areas where UVGL Primer is applied before.

Since glass bottles are often pre-decorated with different colours and effects, UV screen printing is usually the most practical solution. If you are using solvent-based inks for such applications, MGL Primers are available upon request.



● TUBES

Attractive For Daily use

Today, the entire consumer and luxury goods industry uses tubes for its packaging. Whether for high-quality cosmetics, hair care products, hand creams or toothpastes, the printing on these tubes and caps offers clear marketing benefits. peyer was one of the first to recognise this and today, we offer the largest selection of stamping foils for the tube industry worldwide.

peyer offers high-quality, abrasion-resistant foils in almost all colours. Classic foils in gold and silver, as well as modern trend colours and iridescent foils with diffraction effects, make up an integral part of the peyer foil range. Tubes and caps for high-quality cosmetics come into their own with sophisticated designs based on research and technology. peyer can meet stringent marketing requirements and work with strong ideas. The product refinement possibilities are endless.





Peyer is the leader for hot-stamping foils on extruded plastic tubes.

High-speed stamping machine (e.g., MADAG TPA or CER): Winding speed is about 200mm/sec (80-100 tubes/min) Silicone stamping tools are used to compensate irregular tube thicknesses of about 400 my (tolerance of about 5%) Brass stamping tools are used to increase the gloss levels.

Standard tube sizes are between diameter 10x50mm and 50x250mm.



Peyer's foil is BEST in CLASS on extruded plastic tubes with UV-Coating. The foil offers an exceptional adhesion combined with an outstanding protection layer.

Excellent abrasion- and scratch resistance (alcohol, crème, scratches, water and humidity)
High speed application combined with low waste ratio

Possible to source all metallic colors, matte finish and diffraction designs

High gloss



Main hot stamping foils qualities for extruded tubes

Master Roll width is 640mm the roll length can be 120, 300, 600, 1,000, 1,500 meters

63TX = Bestseller on UV-Coatings (gloss and matte) (areas and fine details), the 10 main colors are usually in stock

(preferred UV-coating: Siegwark and PPG UV-Coatings)

63XO = over-printable with UV-screen printing inks (preferred inks: Marabu, SunChemical and Printcolor)

63S = on uncoated tubes and on (UV)-screen printing inks

63 = for highest gloss (like a mirror)

68SR = for highest chemical resistance (for example for high protection sunscreen 50+)



● Cosmetic Packaging

IMPECCABLE ACCENTUATION

Cosmetics accentuate the facial features of those who use them, creating beauty or a special “look”. So understandably, eyeliners and mascaras as well as jars of creams, bottles and dispensers, together with their caps and lids, must attract attention in a constantly growing and competitive market. Peyer's stamping foils offer the very creative spectrum that marketing managers, designers, and producers need to attract attention to their products and emphasise their value. Metallic effects, classic colours, and multi-coloured graphics help create the most varied of designs. peyer knows the cosmetics industry and knows what's in demand. Take advantage of peyer's expertise in product refinement.



● Cosmetic Packaging



Peyer is the leader for hot-foil-stamping foils on various plastics use for Plastic-Bottles and Lids Mascaras, Liners, Pencils, Lipsticks as well as Caps, Closures and Jars, especially due to the high chemical resistance of the content.

High-speed hot-foil-stamping machine (e.g., MADAG or CER): speeds can range from about 30 parts/min to 160 parts/min

Mostly used is Rotary Roll-on method with Silicone stamping tools from peyer Tooling

Peyer's cosmetic foils are best in CLASS. The foil offers an exceptional adhesion combined with an outstanding protection layer for chemical resistance. Peyer foils on various plastics as well as on UV-Coatings offer the following outstanding features:

- Excellent abrasion- and scratch resistance (alcohol, crème, scratches, water, and humidity)
- High speed application combined with low waste ratio
- Possible to source all metallic colors, matte finish, and diffraction designs
- High gloss

Main hot foil stamping qualities for cosmetic application

Master Roll width is 640mm the roll length can be 120, 300, 600, 1,000, 1,500 meters

63 series = of which 63TX and 63XO (overprintable) being the Bestseller on PET and on UV-Coatings; in (gloss and matte) (areas and fine details), the 10 main colors are usually in stock

59 series = on PE (Polyethylene) and on PP (Polypropylene)

54 series = on PS (Polystyrene), on ABS (Acrylonitrile Butadiene Styrene) and on SAN (Styrene Acrylonitrile) Subcategories like over-stampable and over-printable versions as well as highest edge-definition and more properties are available per series.



- **Contemporary glass finishing**
with unlimited design options



● Direct-Transfer Glass Finishing

- | | |
|-------------------------------------|---|
| ● EASY, FAST and SAFE | ➔ pre-heat – transfer – post-cure |
| ● COST-EFFECTIVE | ➔ 20 – 50 % below total cost of silk screen print |
| ● State-of-the Art printing quality | ➔ High resolution |
| ● UNLIMITED DECORATION options | ➔ CMYK, full tones and effects |
| ● For flint and coated glasses | ➔ Highest adhesion |

● YOUR BENEFIT in EZ - Decorations

“UNLIMITED” design options on glass, plastics and metal

Colors:

- 8 colors (per run)
- High resolution (dot min 0.10 mm/0.0039")
- Fine, sharp lines (line min 0.15 mm/0.0059")
- Fine halftones (gradient 10 – 100 %)
- Solid spot colors (full tones)
- Partial metallization (color, gradient, 2nd run)
- Pearl, UV and thermo-chromatic effects

Dimensions:

max length 520 mm x max width 388 mm
(20.47" x max width 15.27")
min width = 28 mm/1.10"

on glass and transparent plastic:
360° decoration
Back side printing

● Wide Range of applications and market opportunities

High-quality industrial glass packaging for:



Spirits



Food



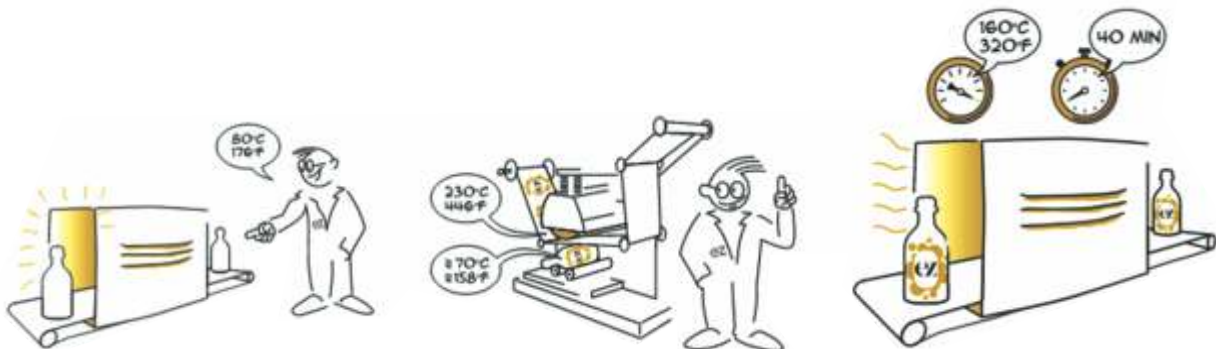
Cosmetics



Perfumes



Drinking glasses



● ADVANTAGE for your Production

- pre-heat (80°C / 176°F) → transfer (230°C/446°F) → post cure (165°C/ 329°F for 40 min)
- lowest rejection rates
- space saving production (1 pass only); NO silkscreen machine necessary
- direct application – suitable for flint and coated glass – w/o primer
- highest adhesion – unmatched chemical and physical resistance
- Hardness: 60 Shore A

Cosmetic Packaging

Applications	Quality															
	510S	54SD	54HD	55SA	59HD	59SR	63	63S	63TX	63XO	64	68LC	XF	58	603	MW
Plastics	ABS	●	●	●	●	●										
	PA	●	●	●	○											
	PC	●	●	●	○											
	PE	●	●	●	●	●										
	PET-G	●	●	●												
	PMMA (Acryl, Plexi)	●	○	○												
	POM	●			○	○										
	PP	●	○			●										
	PS	●	●	●	●											
	PVC	●	●	●	●											
Foil characteristics	SAN	●	●	●	●											
	Surlyn	○														
	UV lacquered items															
	Heat resistance	●	●	●	●	○	●	●	○	○	●	●	●	●	○	○
	Abrasion and scratch resistance	●	●	●	●	○	●	●	●	●	●	●	●	○	○	○
	Alcohol and product resistance	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○
	Tape test resistance	●	●	●	●	●	●	●	●	●	●	●	●	○	○	○
	Overstampability	●			○	○			○	○	○	○	○	○	○	○
	Overprintability	○												○	○	○
	Edge definition	●														
Availability	Full surface stamping															
	Gold/silver standard 10/20	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Various gold shades, silver mat		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Metallic Colours		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Diffraction															
	Specials															
	Second surface foil															
	Gloss Pigment (98/99)															
	Metallic White (909)		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Brushed foil (10BR/20BR)															

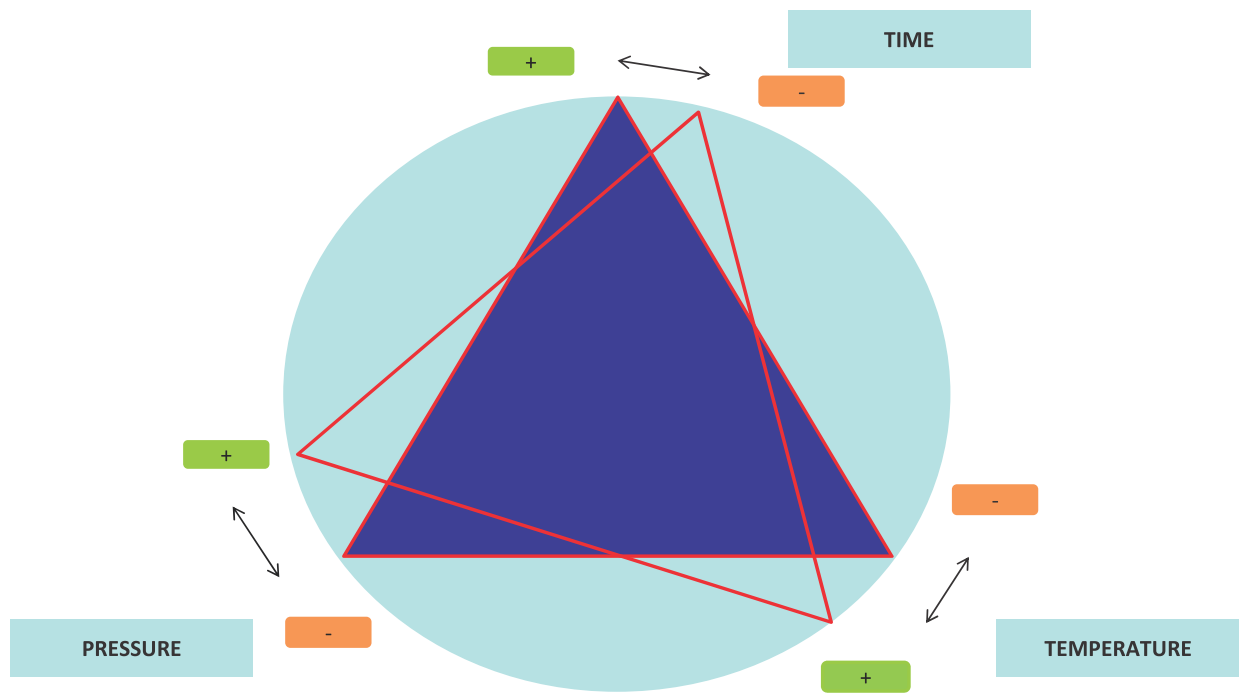
This foil selection only shows an overview of our wide range of foils. Please contact our sales staff for detailed information.
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Tubes and Caps

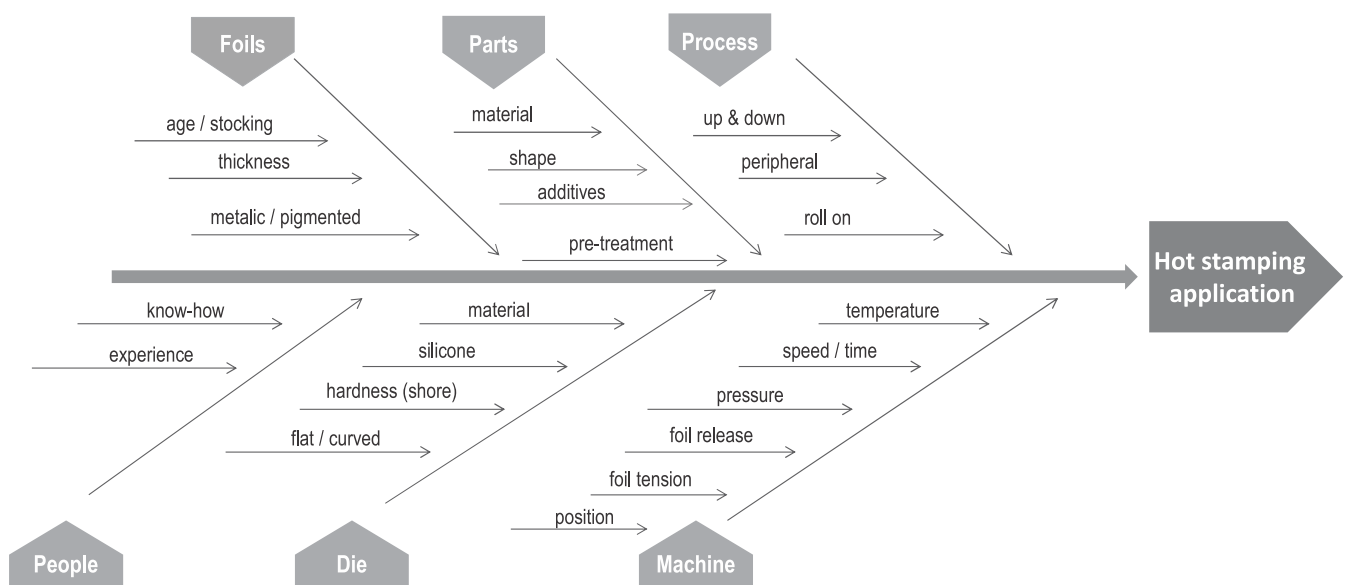
Applications	Quality															
	63TX	63XO	63S	63	68SR	59HD	64	54SD	510S	MW	MW-S	603	302+			
Tubes	2K-lacquered tubes - glossy varnish	○	○													
	2K-lacquered tubes - Mat varnish	○	○													
	UV-lacquered tubes - glossy varnish	●	●	●	●											
	UV-lacquered tubes - Mat varnish	●	●	●	●											
	Softtouch varnish															
	Unvarnished PE-tubes															
	Silk screen printed tubes	○	○	●												
	Caps															
	PP/PE caps	○	○	○	○	●	○	○	○	○	○	○	○	○	○	○
	SAN, ABS caps	○	○	○	○	○	○	○	○	○	○	○	○	○	○	○
Foil characteristics	Laminated Tubes															
	with overvarnish	●	●	○	○											
	without overvarnish															
	with overprint	●														
	Heat resistance	○	○	●	●	○	○	○	○	○	○	○	○	○	○	○
	Abrasion and scratch resistance	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○
	Alcohol and product resistance	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○
	Tape test resistance	●	●	●	●	○	○	○	○	○	○	○	○	○	○	○
	Overstampability	○														
	Overprintability	○														
Availability	Edge definition															
	Gold/silver standard 10/20	■	■	■	■	■	■	■	■	■	■	■	■	■	■	■
	Various gold shades, silver mat		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Metallic Colours		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Diffraction															
	Specials															
	Brushed foil (BR10/BR20)		□													
	Metallic white (909)		□	□	□	□	□	□	□	□	□	□	□	□	□	□
	Gloss pigment (98/99)															

This foil selection is only showing an overview of our wide range of foils. Please contact our sales staff for detailed information.
Hotline: +41 56 2665100 · info@peyer-foils.com

• peyer hot stamping parameters



● influential parameters





CHROMATIC EMBRACE

WATER - BASED PAINTS FOR CONTAINER GLASS







CHROMATIC EMBRACE
WATER-BASED PAINTS FOR CONTAINER GLASS

ICA Group

QUALITY, TECHNOLOGY AND DESIGN

World leaders for innovation in wood and glass coatings ICA is a large Italian company with headquarters in Civitanova Marche (Macerata). In December 2022, it joined the wood division of The Sherwin-Williams Company, a global leader in the coatings industry, founded in 1866 and operational in 120 countries. Today, it can therefore count on the strength of a Group that explores new horizons; the strength needed to satisfy a demanding and rapidly evolving market requiring innovative, high-quality and environmentally friendly solutions.





The Considerable experience in the formulation of water-based coating products has led the ICA Group R&D laboratories to create a special range of paints for container glass painting. The paints in range of water-based paints for container glass offers high performance and both aesthetic and application advantages. They can be used for standard spraying application, with an electrostatic turbo disc or with a rotary bell.

This range includes clear, colored, pigmented and metallic two-component and thermosetting water-based paints (also without adhesion promoter). There is an unlimited and flexible color range with ample customization options, which also allows screen printing with the most common standard or UV curing inks.

The water-based products for container glass are nonflammable, and can be diluted in water making them simple to prepare and use. They have a minimal volatile organic compound content and zero hazardous carcinogenic or toxic substances, in line with regulations on the limitation of atmospheric solvent emissions.





• CHEMICAL AND PHYSICAL TESTS

OVERALL MIGRATION	MIN. DECREE 21/03/1973; REG. (EC) no. 2023/2006
PB SPECIFIC MIGRATION	MIN. DECREE 21/03/1973; REG. (EC) no. 2023/2006
MECHANICAL DISHWASHING RESISTANCE	UNI EN ISO 12875-1:2005
RESISTANCE TO ALKALIS (NaOH 3% 90 min at 70°C)	Internal method
PERFUME SIMULANT TEST IMMERSION (Maculation test 4h*)	QAC-MC-828 K paragraph 5.5.2. Case no. 1 (Test
RESISTANCE TO G1 SPRAY TEST	INS011
RESISTANCE TO G1 IMMERSION (24h + adhesion)	INS013
RESISTANCE TO G1 IMMERSION (4h at 55°C + adhesion)	INS013
RESISTANCE TO H2O IMMERSION (24h + adhesion)	INS015
RESISTANCE TO H2O IMMERSION (4h at 55°C + adhesion)	INS015
ADHESION	INS008
TRANSPORTATION TEST	Internal method
PASTEURIZATION (30 min at 80°C)	Internal method
TEMPERATURE CHANGES	ASTM C149/2014



THERMOSETTING WATER-BASED PAINTS

CODE	CHARACTERISTICS	CAN BE COLORED WITH CNA-SERIES DYES	CAN BE COLORED WITH CG-SERIES DYES	CAN BE COLORED WITH PA-SERIES PASTES	FOOD CONTACT (Italian Ministerial Decree of 21/03/1973; Regulation [EC] no. 2023/2006)	MECHANICAL DISHWASHING RESISTANCE (UNI EN 12875-1:2005)	L'OREAL TEST	NO DANGER LABEL
GPW6101T10	Transparent matt	✓	✓	✓	✓	✓	✓	✓
GPW6101T99	Transparent gloss	✓	✓	✓	✓	✓	✓	✓

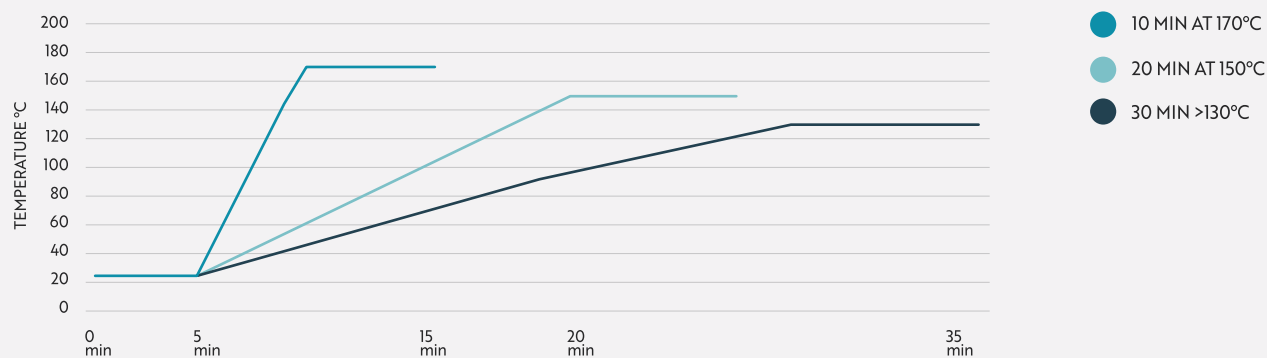
PREPARATION

- Open the can and mix the products until uniform.
- Take the amount needed for use.
- Weigh the AD33 adhesion promoter (2%–4%) as indicated in the Technical Data Sheet.
- Add the adhesion promoter slowly using a mechanical stirrer.
- Adjust the viscosity with demineralized water (standard spraying 25–35" DIN4, with turbodisc or rotary bell 15–20" DIN4).

DRYING

VIDREA thermosetting paints for container glass must reach a temperature of **at least 130°C**. The standard cycle includes a flash-off time of 2–3 minutes at ambient temperature and a temperature ramp from 25°C to 130°C, which is maintained for 20–30 minutes.

DRYING EXAMPLES FOR THERMOSETTING PAINTS



● Unlimited color range

The range includes two-component, thermosetting, clear, pigmented and metallic water-based paints. There is a limitless and highly flexible range of colors with comprehensive options for customization, also enabling screen-printing with leading inks using standard or UV drying. More than 2,300 colors to choose from on the ICA, RAL and NCS color charts, all accurately reproduced with the ICA COLOR tintometric system, in addition to specially developed samples for customers with rapid formulation.

The water-based products for container glass are nonflammable, and can be diluted in water making them simple to prepare and use. They have a minimal volatile organic compound content and zero hazardous carcinogenic or toxic substances, in line with regulations on the limitation of atmospheric solvent emissions



THERMOSETTING WATER-BASED PAINTS

Water-based paints for the creation of transparent or opaque colors on flat or container glass. They can be colored using the products from the CNA and CG series and can be pigmented with PA-series products. The drying temperature may vary between 140°C and 180°C.

WATER-BASED SAFETY PAINT GPSAFEPAK

is a clear or colored water-based product that can be applied by spraying or curtain-coating and that enables glass and mirrors to be made safe. It forms a thin film that, if the glass or mirror cracks, holds all the shards in place, thereby preventing dangerous cuts or other accidents. This product, which has been subject to pendulum impact testing as per the EN 12600:2004 standard, is categorized in class 2(B)2. As such, it falls within the safety parameters for single flat panes of glass for use in construction.

BINDERS FOR METALLIC PAINTS

The water-based binders of the GPW1109T series, specially developed for the creation of a metallic finish on container glass, enable a very wide range of effects.

GOLD EFFECT

The GPGOLD24K water-based paint represents an important evolution in the creation of a gold effect. It enables creation of extremely high-sheen surfaces with excellent adhesion on glass.

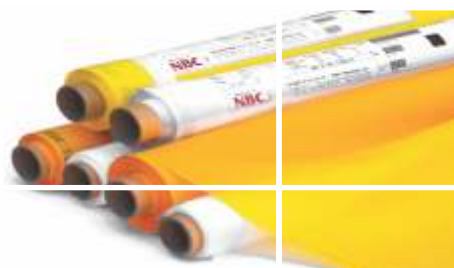
The container-glass painting cycles with GPGOLD24K, protected with ICA transparent products, pass the G1 solution-resistance test and that for standard dishwasher cycles.





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 [SepasFZC](https://www.instagram.com/SepasFZC)



Access to Printing Solutions



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