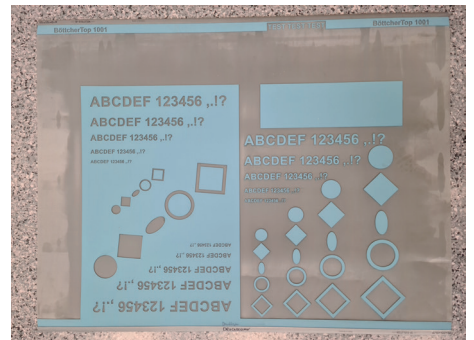
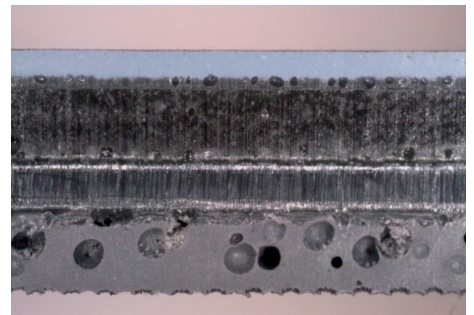
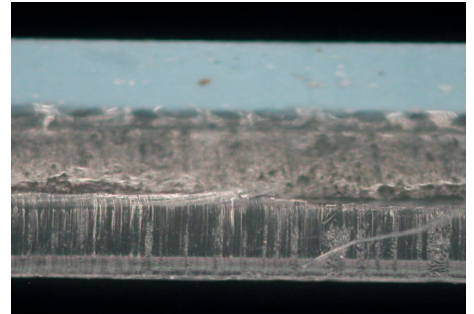
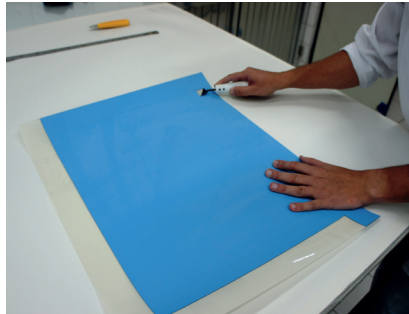
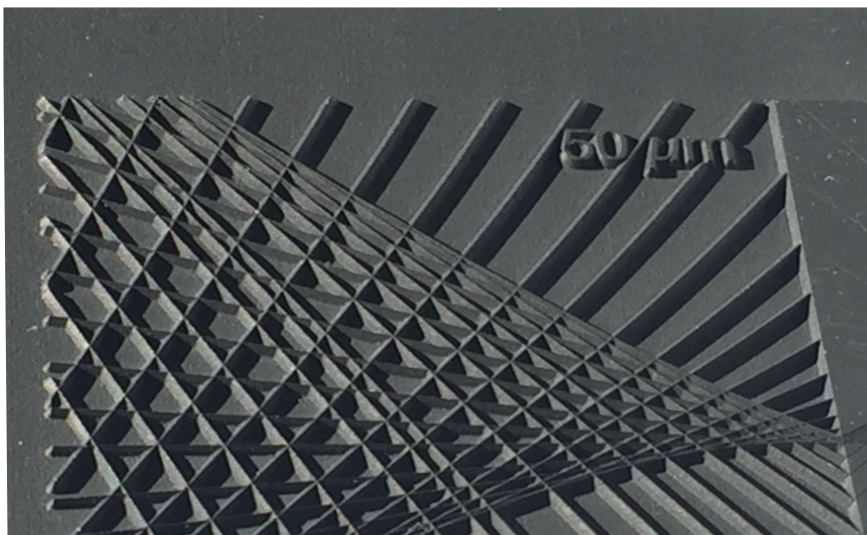


Bản tráng phủ và cao su tráng phủ dành cho ứng dụng tráng phủ toàn phần & từng phần



Các bản tráng phủ khắc Laser chuyên dành cho các ứng dụng tráng phủ hoa văn.





Systems ►► Printing

Giới thiệu chung

Böttcher là nhà cung cấp hàng đầu cho các bản tráng phủ, cao su tráng phủ cho ngành công nghiệp in trên toàn thế giới và cung cấp nhiều loại bản tráng phủ và cao su tráng phủ cho các ứng dụng tráng phủ toàn phần và từng phần (phần dán keo đến các hình ảnh tráng phủ đơn giản), Bản cao su khắc laser chuyên dành cho các chi tiết tráng phủ phức tạp, chi tiết cũng như cung cấp giải pháp về bọc lớp lót (under -packing) cho bản tráng phủ chỉ có ở Böttcher.

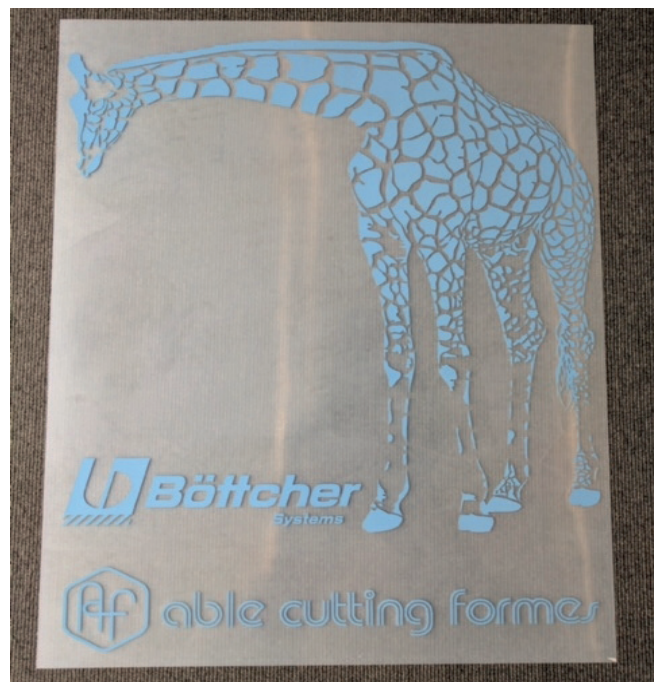
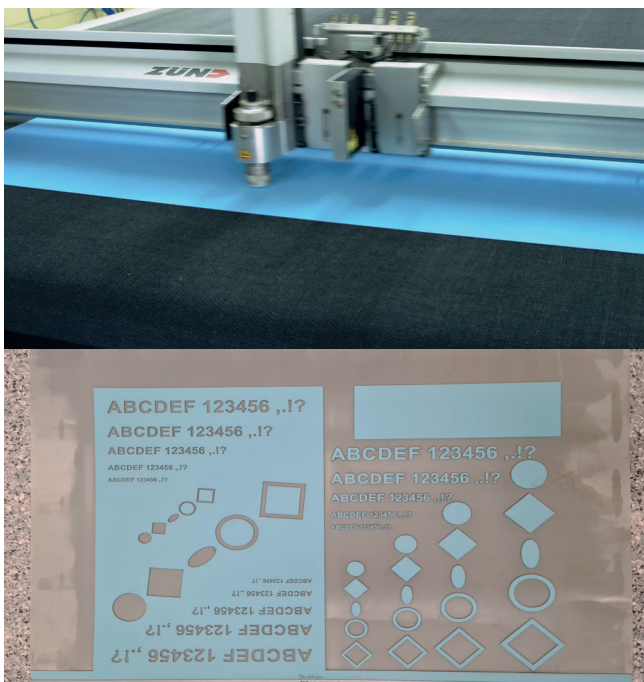
Bản tráng phủ và cao su tráng phủ dành cho ứng dụng tráng phủ toàn phần & từng phần

Chúng là "polyester-back" và chủ yếu được sử dụng:

- Trên các đơn vị tráng phủ có các thanh định vị nhanh "fast clamps" cho các khuôn đục lỗ. Chúng cũng có thể (ngay cả khi không được khuyến nghị vì lý do keo kết dính ở nếp) sử dụng cho đơn vị tráng phủ sử dụng nếp. Chính vì vậy, bản tráng phủ này có thể sử dụng ở các đơn vị tráng phủ yêu cầu đục lỗ hoặc sử dụng nếp bản.
- Các bản tráng phủ này rất phù hợp cho các đơn hàng in lặp lại "repeat job" vì khả năng tái sử dụng rất cao với đặc tính không co giãn của lớp đế polyester của bản tráng phủ. Tất nhiên, chúng cũng có thể sử dụng cho đơn hàng chạy một lần.

Các bản tráng phủ có sẵn cho ứng dụng in lượng tính, có thể phù hợp cho cả tráng phủ gốc nước và gốc UV cũng như một phiên bản đặc biệt trong tráng phủ gốc nước chuyên dụng (được khuyến nghị bất cứ khi nào khi gặp các sự cố bám mực "ink back-trapping") và một phiên bản nâng cao cho ứng dụng in UV (khuyến nghị cho trường hợp gặp sự cố bị phân tách lớp đế khi in UV)

Các bản tráng phủ bề mặt có thể sử dụng cao su hoặc PU, do đó sự ưa chuộng rõ ràng đối với các tấm tráng phủ có bề mặt cao su trên thị trường là không thể chối cãi do một hoặc một vài sự kết hợp của các yếu tố sau: Đường cắt rõ ràng dễ nhận dạng, lượng phủ cao hơn (đặc biệt đúng với ứng dụng phủ UV và soft-touch), lớp tráng phủ có độ đồng đều cao hơn (dung sai kích thước thấp hơn) và bù trừ tốt các rung động của trục anilox (do bề mặt mềm hơn). Các khuôn tráng phủ PU có xu hướng bị bám mực "ink back-trapping" khi sử dụng tráng phủ gốc nước.



Cao su tráng phủ cho ứng dụng tráng phủ toàn phần & từng phần

Chúng là lớp đế bằng vải "fabric-back" và chủ yếu sử dụng cho:

- Các đơn vị tráng phủ không có thanh định vị nhanh và đục lỗ, và chỉ có khả năng chấp nhận các bản cao su có nếp. Các bản cao su tráng phủ cũng có thể sử dụng trên đơn vị tráng phủ chấp nhận cả bản cao su tráng phủ không có thanh định vị nhanh, đục lỗ và nếp cao su.
- Sử dụng cho các đơn hàng không tái bản "non-repeat job" vì giới hạn bởi đặc tính co giãn của vải cotton. Ở đây có một sản phẩm cao su tráng phủ trong danh sách các sản phẩm của Böttcher có thể sử dụng nhiều lần mà không lo ngại về vấn đề sai lệch chồng màu.

Chúng tôi có sẵn một phiên bản lưỡng tính, có khả năng sử dụng cho tráng phủ gốc nước và UV cũng như một phiên bản UV chuyên dụng cho ứng dụng tráng phủ UV.

Các bản tráng phủ khắc Laser chuyên dành cho các ứng dụng tráng phủ hoa văn chi tiết.

Chúng là một sự thay thế cho các bản tráng phủ photopolymer trên đế nhôm dựa trên đế polyester. Các bản cao su này cung cấp các giải pháp để khắc phục các hạn chế kỹ thuật gặp phải khi sử dụng bản photopolymer, giúp thiết lập các tiêu chuẩn chất lượng mới và cao hơn trên các tráng phủ hoa văn đặc biệt.



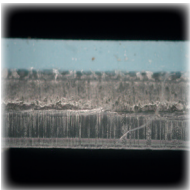
Tấm lót cho bản tráng phủ, giải pháp cho việc tính toán bọc ống đơn giản hơn

Tấm lót dùng bọc ống là giải pháp thay thế cho giấy lót và đã được hiệu chỉnh độ dày theo nhiều loại máy khác nhau. Nó không chỉ thân thiện, dễ sử dụng hơn mà còn giúp quá trình thay thế dễ dàng, nhanh chóng, giải quyết được nhiều vấn đề tiềm ẩn và cho phép tiết kiệm đáng kể thời gian và chi phí sản xuất.

Strippable coating plates for spot and flood coating

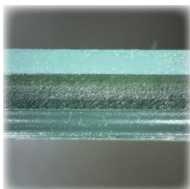
Hybrid (all-round) coating plates

BöttcherTop 1001



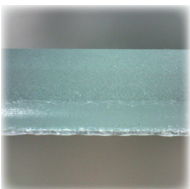
The high-tech version with a unique combination of materials and production technologies. The soft, smoothly ground rubber surface provides for good cut-line recognition and offers high varnish transfer as well as homogeneous coating lay down while compensating for anilox roller vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibers. It also eliminates the risk of lifting unwanted areas. When used with most UV varnishes the PU stripping layer prevents delamination. The mechanically treated slightly roughened up polyester carrier ensures easy stripping and consistent peel strength from one batch to the next. It also prevents undesirable residues on the polyester backing. The two-layer polyester backing eliminates polyester breakage, even when slightly scored during the cutting process. **Area of application:** water-based and UV varnishes. **Nominal gauges:** 1.15 mm, 1.35 mm and 1.95 mm. **Gauge tolerance:** +/- 0.02mm

BöttcherTop 1011



The economical version of the BT1001. It highly bases on BT1001 except for the polyester surface treatment. The soft, smoothly ground rubber surface provides for good cut-line recognition and offers high varnish transfer as well as homogeneous coating lay down while compensating for anilox roll vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibres. It also eliminates the risk of lifting unwanted areas. When used with most UV varnishes the PU stripping layer prevents delamination. The electrostatically treated totally smooth polyester carrier ensures easy stripping and consistent peel strength from one batch to the next. It also prevents undesirable residues on the polyester backing and delays the ingress of UV varnishes and the subsequent delamination. The two-layer polyester backing eliminates polyester breakage, even when slightly scored during the cutting process. **Area of application:** water-based and UV varnishes. **Nominal gauges:** 1.15mm and 1.35mm. **Gauge tolerance:** +/-0.02mm

BöttcherTop 1006 Dual



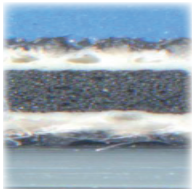
The standard version of a PU plate in the Böttcher range. The cast PU surface offers good varnish transfer, controlled ink back-trapping with water-based varnishes and extended cleaning intervals. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibers. It also eliminates the risk of lifting unwanted areas. The PU stripping layer ensures easy stripping and is suitable for use with many UV varnishes inclusive of some aggressive ones. **Area of application:** water-based and UV varnishes. **Nominal gauges:** 1.15 mm and 1.35 mm. **Gauge tolerance:** +/- 0.05mm

BöttcherTop 1010



The compressible version of a thin coating plate for irregular substrates and micro-flute board: the compressible layer compensates for irregularities in print substrates and ensures optimum varnish coverage in the valleys of micro-flute board. The soft, smoothly ground rubber surface provides for good cut-line recognition and offers high varnish transfer as well as homogeneous coating lay down while compensating for anilox roller vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibers. It also eliminates the risk of lifting unwanted areas. The stripping layer consisting of a rubber compound developed for mixed-mode operations ensures easy stripping and is also suitable for use with most UV varnishes. **Area of application:** water-based and UV varnishes. **Nominal gauge:** 1.35mm. **Gauge tolerance:** + /-0.02mm

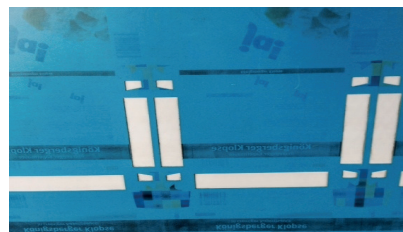
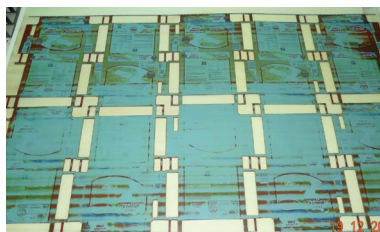
BöttcherTop 1002



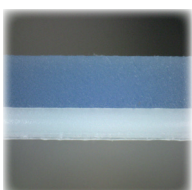
The version with two possible relief depths. The BT1002 can be stripped on the compressible layer (relief depth: 0.90mm) or on the polyester backing (relief depth: 1.60mm). The soft, smoothly ground rubber surface provides for good cut-line recognition and offers high varnish transfer as well as homogeneous coating lay down while compensating for anilox roll vibrations. The fabric-reinforced construction allows for the stripping of large areas without tearing in pieces. The stripping layer consisting of a rubber compound developed for hybrid operations ensures easy stripping and is suitable for use with most UV varnishes. **Area of application:** water-based and UV varnishes. **Nominal gauge:** 1.95mm. **Gauge tolerance:** +/-0.02mm

Coating plates developed especially for water-based varnishes

A recurring issue in water-based varnishing is ink back-trapping. Possible causes to it are many: volumetric capacity and maintenance of anilox rolls, anilox roll/coating plate nip, coating plate/ impression cylinder pressure setting, viscosity of the varnish, etc. Once all possible causes have been thoroughly checked and ink back-trapping is still there, then a solution might be found in a coating plate offering very specific surface properties and not having a tendency to run too dry.

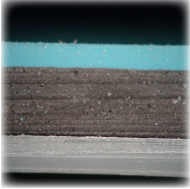


BöttcherTop 1009

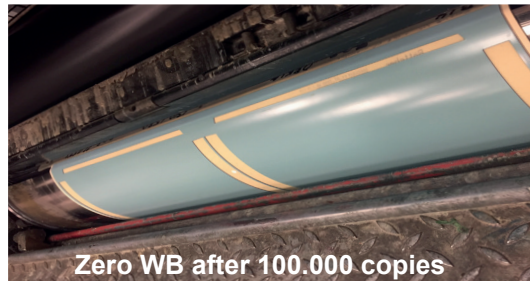


The PU version of a coating plate free of ink back-trapping. The cast surface is made of extremely hydrophilic polymers with high surface energy properties. Water-based varnish readily flows over the plate covering it with a consistent film of varnish and doesn't form droplets. It allows to keep ink back-trapping under control in the most critical environments, offers high varnish transfer, extended cleaning intervals and easy cleaning. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibers. It also eliminates the risk of lifting unwanted areas. The polymer stripping layer ensures easy stripping but has limited suitability for use with UV varnishes. **Area of application:** water-based varnishes. **Nominal gauges:** 1.15mm and 1.35mm. **Gauge tolerance:** +/-0.05mm

BöttcherTop Zero WB

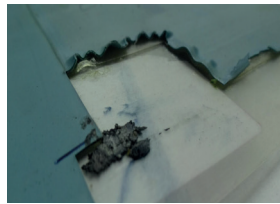


The rubber version of a coating plate free of ink back-trapping. The surface rubber compound used on Zero WB is unique, has extremely high surface energy and is very hydrophilic. Water-based varnish readily flows over the plate covering it with a consistent film of varnish and doesn't form droplets. It allows to keep ink back-trapping under control in the most critical environments, offers extended cleaning intervals and easy cleaning. The soft, smoothly ground rubber surface additionally provides for good cut-line recognition and offers high varnish transfer and homogeneous coating lay down while compensating for anilox roll vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibres. It also eliminates the risk of lifting unwanted areas. The stripping layer consisting of a rubber compound developed for water-based operations only ensures easy stripping but is not suitable for use with UV varnishes. **Area of application:** water-based varnishes. **Nominal gauges:** 1.15mm and 1.35mm. **Gauge tolerance:** +/-0.02mm



Coating plates with enhanced UV capabilities

A recurring issue in UV varnishing is delamination. The standard process is that the stripping layer swells and gets wavy opening the door for UV varnish ingress whereby delamination is the ultimate step in the process. The speed of the process depends on the aggressiveness of the UV varnish used though.



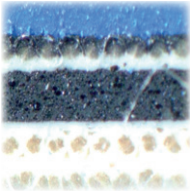
BöttcherTop Zero Mix



The stripping layer consisting of a rubber compound developed for hybrid applications is suitable for use with all varnishes inclusive of the most aggressive UV varnishes. Peel strength is higher than standard as any low peel strength coating plate will end up delaminating. The hybrid surface rubber compound used on Zero Mix is swell resistant to the polar components of UV varnishes and UV washes, has extremely high surface energy and is very hydrophilic. While UV varnishes have no adverse effects on it, water-based varnishes readily flow over the plate covering it with a consistent film of varnish and don't form droplets. It allows to keep ink back-trapping under control in the most critical environments, offers extended cleaning intervals and easy cleaning. The soft, smoothly ground rubber surface additionally provides for good cut-line recognition and offers high varnish transfer and homogeneous coating lay down while compensating for anilox roll vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibres. It also eliminates the risk of lifting unwanted areas. **Area of application:** water-based and UV varnishes. **Nominal gauges:** 1.15mm, 1.35mm and 1.95mm. **Gauge tolerance:** +/-0.02mm

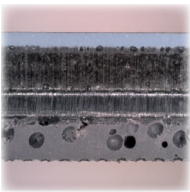
Strippable coating blankets for spot and flood coating

BöttcherTop 1007



The hybrid version of a strippable coating blanket in the Böttcher range. The compressible layer of the BT1007 actually consists of two layers with different microsphere densities. A natural strip surface that forms between the two layers ensures easy, quick and clean stripping. The compressible layer lies deeper than usual in the blanket construction and thus offers deep relief (0.9mm) and reduced varnish build-up in the stripped areas. The hybrid and hydrophilic, smoothly ground rubber surface provides for good cut-line recognition and coating transfer while minimizing ink back-trapping and being suitable for use with most UV varnishes. **Area of application:** water-based and UV varnishes. **Nominal gauge:** 1.95mm. **Gauge tolerance:** +/-0.02mm

BöttcherTop 1001FB



The high-tech version of a strippable coating blanket with a unique combination of materials, production technologies and features. The BT1001FB construction bases on a polyester carrier (like strippable coating plates) placed in a sandwich position which makes the product reusable for many subsequent repeat jobs. The mechanically treated slightly roughened up polyester carrier ensures easy stripping and consistent peel strength from one batch to the next. It also prevents undesirable residues on the polyester backing. The rubber foam adhered to the backside of the polyester carrier guarantees excellent adhesion of any aluminium or steel bar. The soft, smoothly ground rubber surface provides for good cut-line recognition and offers high varnish transfer and homogeneous coating lay down while compensating for anilox roll vibrations. The construction without fabric ensures reduced rigidity, simple cutting of complicated forms, easy corner-cutting and sharp cut edges without exposed remaining fibres. It also eliminates the risk of lifting unwanted areas. When used with most UV varnishes the PU stripping layer prevents delamination. **Area of application:** water-based and UV varnishes. **Nominal gauge:** 1.95mm. **Gauge tolerance:** +/-0.02mm

BöttcherTop Strip n' Coat UV



The EPDM version of a strippable coating blanket in the Böttcher range. The smoothly ground EPDM-rubber surface is swell resistant to the polar components of UV varnishes and UV washes. It provides for good cut-line recognition and coating transfer. The compressible layer of the Strip n' Coat UV actually consists of two layers with different microsphere densities. A natural strip surface that forms between the two layers ensures easy, quick and clean stripping. The compressible layer lies deeper than usual in the blanket construction and thus offers deep relief (0.9mm) and reduced varnish build-up in the stripped areas. **Area of application:** UV varnishes. **Nominal gauge:** 1.95mm. **Gauge tolerance:** +/-0.02mm

Laser engravable rubber coating plates for decorative coating

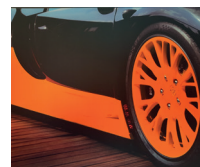
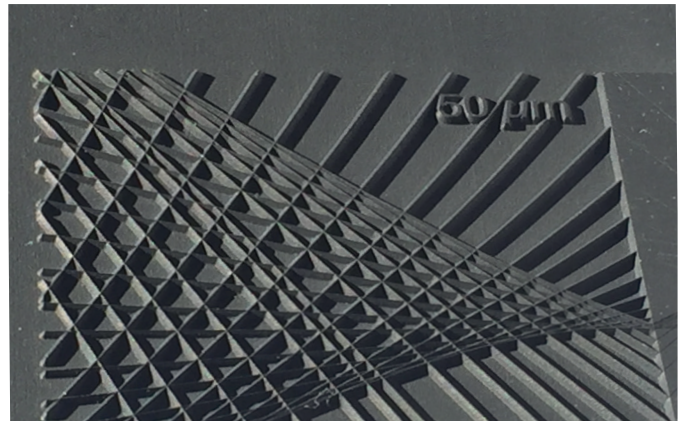
DecoCoat: The true alternative to polyester-based and/or aluminium-based photopolymer plates.

The surface material:

Photopolymers have a limited swell resistance to UV varnishes: positive elements print bigger than expected, smaller negative texts have a tendency to close. DecoCoat uses EPDM rubber with outstanding swell resistance to UV varnishes as a surface material: positive elements print 1 to 1, smaller negative texts have no tendency to close.

Photopolymers plates have a poor resistance to abrasion: they wear out pretty fast, may require a set of them to be used for bigger runs and offer limited reusability for repeat job. The EPDM rubber used on DecoCoat is highly resistant to abrasion: the plate doesn't wear out, bigger runs can be handled by a single plate, reusability for repeat job is excellent.

The EPDM surface rubber used on DecoCoat offers a higher varnish transfer than photopolymers: varnish transfer is excellent and higher gloss readings become possible. DecoCoat has occasionally been reported to require less coating to match the gloss readings of photopolymer plates and/or to make higher gloss readings possible than photopolymer plates at equal varnish settings.



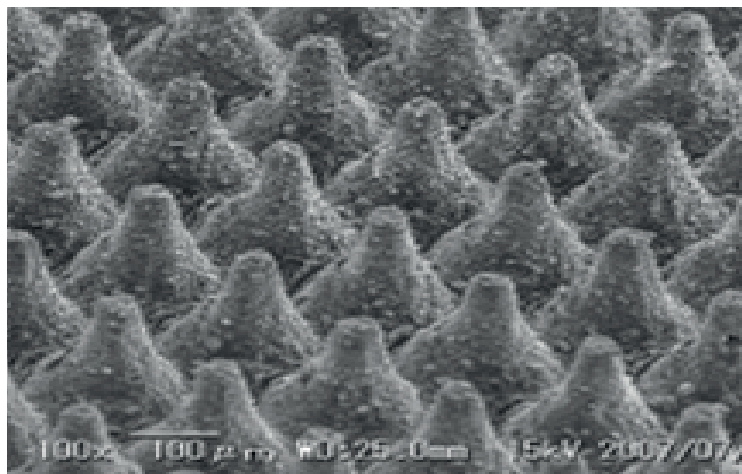
The carrier:

Polyester-based photopolymer plates have a 0.25mm thick polyester carrier which is thinner than the standard 0.35mm thick polyester carrier used on strippable coating plates: they have a tendency to pull out of fast clamps and to stretch. DecoCoat uses a 0.35mm thick polyester carrier: it doesn't pull out of fast clamps and doesn't stretch.

Aluminium-based photopolymer plates have a 0.30mm thick aluminium carrier: they don't pull out of fast clamps and stretch but have a tendency to break when bent twice which seriously affects their reusability for repeat jobs. The 0.35mm polyester carrier used on DecoCoat offers the same elongation performance than aluminium: it doesn't pull out of fast clamps and stretch but also has no tendency to break when bent multiple times.

The production technology:

Photopolymer plates use photo-polymerisation as a production technology which allows no 3D profiles or additional relief steps: smaller positive elements have a tendency to delaminate from the carrier on press. DecoCoat uses Direct Laser Engraving as a production technology allowing 3D profiles or additional relief steps: small positive elements are well anchored and have no tendency to delaminate from the carrier on press.



Available thicknesses:

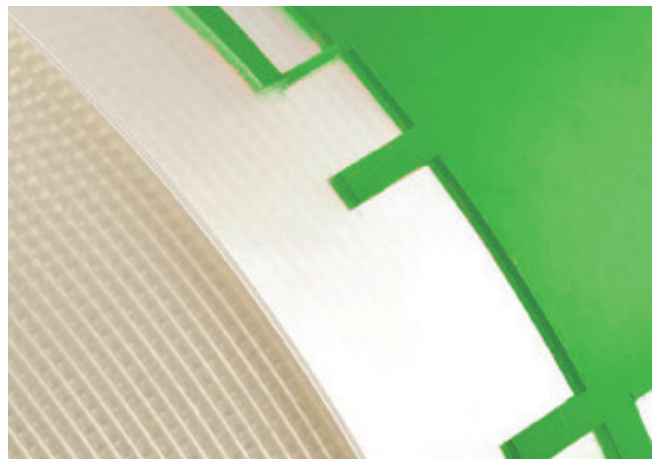
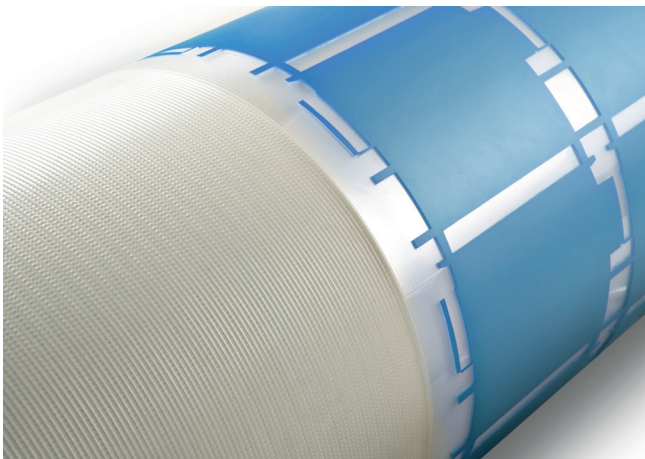
Photopolymer plates, whether polyester-based or aluminium-based, are available in a thickness of 1.15mm only: for print shops using 1.35mm strippable coating plates, permanent under-packing material thickness adjustments are required when changing from a photopolymer plate to a strippable coating plate and vice versa which not only offers room for mistakes but is also time consuming and cost intensive. DecoCoat is available in both 1.15mm and 1.35mm thicknesses: for print shops using 1.35mm strippable coating plates, permanent under-packing material thickness adjustments are not required when changing from a photopolymer plate to a strippable coating plate and vice-versa.

One-piece compressible under-packing material

Böttcher one-piece compressible under-packing material for coating plates is available in both a non-adhesive and adhesive version and in various gauges to accommodate specific press undercuts. The non-adhesive version tends to be the preferred version in shops using various coating plate thicknesses whereas the adhesive version tends to be the preferred version in shops using one coating plate thickness only.

Such compressible under-packing material is the guarantee to always work with the appropriate total packing height, allows prompt and easy plate changes and prevents packing creep. It is made of soft and profiled PU having compressible properties, recovers quickly after every nip, optimizes the coating transfer, regulates the pressure in the nip areas, offsets irregularities in substrate and coating plate thickness, compensates for anilox roll vibrations and minimizes ink back-trapping.

| Gauge | Non-adhesive | Self-adhesive |
|--------|--------------|---------------|
| 1.00mm | BT100 (PU) | BT100SKL (PU) |
| 1.30mm | BT130 (PU) | BT130SKL (PU) |
| 1.45mm | BT145 (PU) | BT145SKL (PU) |
| 1.95mm | BT195 (PU) | BT195SKL (PU) |
| 2.10mm | BT210 (PU) | BT210SKL (PU) |



All coating plates and blankets at a glance

| | Coating plates | | | | | | | | | Coating blankets | | |
|--|----------------|-----------------------|-----------|------------|------------|---------------|------------|----------------|-----------|------------------|------------|--------------|
| | BT1001 | BT1002 | BT1006 | BT1009 | BT1010 | BT1011 | Zero WB | Zero Mix | DecoCoat | BT1007 | BT1001FB | StripCoat UV |
| Application | | | | | | | | | | | | |
| Water-based coatings | X | X | X | X | X | X | X | X | X | X | X | |
| Ink back-trapping with water-based coatings | | | | X | | | X | X | | | | |
| UV-coatings | X | X | X | | X | X | | X | X | X | X | X |
| Delamination with UV-coatings | | | X | | | | | X | X | | | X |
| Microflute board | | | | | X | | | | | | | |
| Available gauges | | | | | | | | | | | | |
| Nominal gauges (mm) | 1.15-1.35-1.95 | 1.96 | 1.15-1.35 | 1.15 -1.35 | 1.35 | 1.15-1.35 | 1.15-1.35 | 1.15-1.35-1.95 | 1.15-1.35 | 1.96 | 1.95 | 1.96 |
| Gauge tolerance (mm) | +/-0.02 | +/-0.02 | +/-0.05 | +/-0.05 | +/-0.02 | +/-0.02 | +/-0.02 | +/-0.02 | +/-0.02 | +/-0.02 | +/-0.02 | +/-0.02 |
| Surface | | | | | | | | | | | | |
| Colour | Blue | Blue | Green | Blue | Blue | Green | Blue | Blue | Black | Blue | Blue | Red |
| Material | Elastomers | Elastomers | Polymers | Polymers | Elastomers | Elastomers | Elastomers | Elastomers | EPDM | Elastomers | Elastomers | EPDM |
| Finish | Ground | Ground | Cast | Cast | Ground | Ground | Ground | Ground | Ground | Ground | Ground | Ground |
| Roughness (Ra/µm) | 0.4-0.7 | 0.4-0.7 | 0.1-0.4 | 0.5-0.8 | 0.4-0.7 | 0.4-0.7 | 0.4-0.7 | 0.4-0.7 | 0.5-0.8 | 0.4-0.7 | 0.4-0.7 | 0.5-0.8 |
| Micro-hardness (°ShoreA) | 57 | 58 | 80 | 83 | 48 | 57 | 61 | 61 | 57 | 58 | 57 | 58 |
| Carrier | | | | | | | | | | | | |
| Material | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Fabrics | Polyester | Fabrics |
| Thickness (mm) | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.35 | 0.30 | 0.35 | 0.30 |
| Layers | 2 | 1 | 1 | 1 | 1 | 2 | 1 | 1 | 1 | 1 | 2 | 1 |
| Construction | | | | | | | | | | | | |
| Fabric plies | None | 2 | None | None | None | None | None | None | None | 3 | None | 4 |
| Compressible layer | No | Yes | No | No | Yes | No | No | No | No | Yes | No | Yes |
| Stripping features | | | | | | | | | | | | |
| Stripping | Polyester | Comp. Layer Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Polyester | Comp. Layer | Polyester | Comp. Layer |
| Depth of stencil profile 1.15mm-Version (mm) | 0.80 | | 0.80 | 0.80 | | 0.80 | 0.80 | 0.80 | 0.80 | | | |
| Depth of stencil profile 1.35mm-Version (mm) | 1.00 | | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | 1.00 | | | |
| Depth of stencil profile 1.95mm-Version (mm) | 1.60 | 0.90/1.60 | | | | | | 1.60 | | 0.90 | 1.00 | 0.90 |
| Stripping layer | Polymers | Elastomers | Polymers | Polymers | Elastomers | Polymers | Elastomers | Elastomers | EPDM | Elastomers | Polymers | Elastomers |
| Carrier treatment | Mechanical | Chemical | Chemical | Chemical | Chemical | Electrostatic | Chemical | Chemical | Chemical | | Mechanical | |
| Peel strength (N/cm ²) | 3.0-7.0 | 4.5-9.0 | 3.0-7.0 | 3.0-7.0 | 4.0-8.0 | 3.0-7.0 | 3.0-7.0 | 4.0-8.0 | 4.0-8.0 | 4.5-9.0 | 3.0-7.0 | 4.0-8.0 |
| Engraving features | | | | | | | | | | | | |
| Maximum recommended depth (mm) | | | | | | | | | 0.55/0.75 | | | |
| Resolution capability (dpi/lpi) | | | | | | | | | 5.080/250 | | | |
| Physical properties | | | | | | | | | | | | |
| Overall hardness (°ShoreA) | 73 | 79 | 84 | 88 | 64 | 73 | 71 | 71 | 70 | 77 | 73 | 78 |
| Tensile strength (N/50mm) | >2000 | >2700 | >2000 | >2000 | >2000 | >2000 | >2000 | >2000 | >2000 | >3500 | >2000 | >4000 |
| Elongation at 500N/50mm | <0.8% | <0.5% | <0.5% | <0.5% | <0.8% | <0.8% | <0.8% | <0.8% | <0.8% | <1.0% | <0.8% | <1.5% |

