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UV Varnish – Extensive Range

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Packaging

A comprehensive range of UV Curable Varnishes covering the commercial to the high specification to fulfil the needs of any packaging producer.. The majority of the following can be utilized wet-on-wet inline over UV inks and offline over conventional/hybrid inks. For independent details please request a Technical datasheet from our technical department.

| | Gloss | Reactivity | Suitability to gluing and foiling | Bzo Free? | Additional Properties |
|---|-------|------------|--------------------------------------|-----------|---|
| U100 Matt UV Varnish | 2 | 7 | Low | No | Good chemical resistance, general purpose Matt UV. Also available in gluable/foilable version. |
| U200 Silk UV Varnish | 4 | 7 | Low | No | Non-enhancing/neutral finish with good reactivity and resistance properties. |
| U301 High Gloss UV Varnish | 8 | 7 | Low | No | Good chemical resistance, all purpose high gloss. |
| U334 High Slip Foil Blockable UV Varnish | 7 | 7 | High | No | Gluable/Foil stampable version of U301 with good slip for processing and increased protection reducing tack to the surface. |
| U322 High Slip Gloss UV | 8 | 8 | Very Low | No | High slip version of U301 for increased scuff resistance and slip. |
| U103 BF Blockable Matt UV | 2 | 8 | High | Yes | Gluable/Foil stampable low odour, matt with high reactivity. Also available U102 as a general purpose version. |
| U202 BF GP Silk UV | 4 | 8 | Low | Yes | Silk/Satin finish for a non-enhanced/neutral look. |
| U303 Bzo Free High Gloss | 9 | 8 | Low | Yes | Low odour, low yellowing general purpose high gloss V. |
| U304 BF Blockable High Gloss | 8 | 8 | High | Yes | Gluable/ Hot foil stampable version of U303 |
| U343 High Slip Bzo Free UV | 8 | 9 | Very Low | Yes | Low odour, high reactivity and high slip for processing with increased protection. |
| U165 Smooth High Matt UV | 2 | 5 | High | Yes | Based on easy-to-matt acrylates these systems do not contain high amounts of matting agents like typical matt UV Varnishes, making them easier to agitate and work with. |
| U186 Fast Cure Smooth Matt UV | 3 | 7 | High | Yes | More reactive version of U165 |

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Screen Varnishes

All formulated for use on rotary and/or manual screen printing applications and with options for all screen sizes and to see particular applications. Often employed as both spot varnishes and flood areas, depending on the application requirements and suitable for a wide variety of mesh sizes.

| | Gloss | Reactivity | Suitability to gluing and foiling | Bzo Free? | Additional Properties |
|--------------------------------------|-------|------------|--------------------------------------|--------------|---|
| U500 High Gloss Silk Screen UV | 9 | 6 | Very Low | No | General Purpose Screen UV used by offline varnishing houses. |
| U532 High Gloss Screen UV | 10 | 6 | Very Low | No | Improved flow out and wetting properties. |
| U520 High Adhesion Screen Lacquer | 9 | 6 | Very Low | No | Improved adhesion to difficult substrates such as laminates. |
| U529 High Matt Screen Varnish | 1 | 5 | Low | No | Produces a smooth ultimate matt appearance with a subtle soft feel adding value to the printwork. |
| U544 High Build Screen UV | 10 | 6 | Very Low | No | Gives a raised (Braille-like), effect when utilized correctly. |
| U526 BF Screen Gloss UV Varnish | 9 | 7 | Low | Yes | Low odour for use on sensitive goods packaging. |

Flexographic

The U600 range is developed especially for flexographic printing to accommodate many common applications as well as others more specialist. These are just common examples, with many others available for gluing/ hot foiling, benzophenone free versions etc.

| | Gloss | Reactivity | Suitability to gluing and foiling | Bzo Free? | Additional Properties |
|------------------------------------|-------|------------|--------------------------------------|--------------|--|
| U600 Flexo Gloss UV | 8 | 7 | Low | No | General purpose varnish for multiple applications. |
| U609 Matt Flexo GP Varnish | 2 | 7 | Low | No | Matt version of above. |
| U614 Thermal Overprint Flexo UV | 8 | 7 | High | No | Formulated for suitability to thermal overprinting ribbons. |
| U615 Dry Peel UV | 8 | 7 | High | No | Special adhesive deadening varnish for multiple label designs. |
| U616 Thermal Paper Gloss | 8 | 8 | Very Low | No | High heat resist and slip for thermal papers. |
| U920 High Gloss Flexo Lacquer | 8 | 7 | Low | No | Excellent adhesion to flexible plastics such as PP. |
| U667 Flexo High Matt UV Varnish | 1 | 5 | Medium/High | No | Ultra flat matt appearance for luxury finishing. |

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|---------------------------|---|---|-----|-----|--|
| U641 Matt BF GP Flexo UV | 2 | 8 | Low | Yes | Highly reactive matt varnish with low odour. |
| U643 Silk BF GP Flexo UV | 4 | 8 | Low | Yes | Silk version of U641 for non-enhanced finish. |
| U644 Gloss BF GP Flexo UV | 9 | 8 | Low | Yes | High Gloss high reactivity, low odour and low yellowing. |

Specialist Applications

Listed below are more specialist applications of commonly used varnishes of ours, which are also available with different properties according to request.

| | Gloss | Reactivity | Suitability to gluing and foiling | Bzo Free? | Additional Properties |
|-----------------------------------|-------|------------|-----------------------------------|-----------|---|
| U740 Jetweb High Gloss UV Varnish | 9 | 9 | Low | No | High reactivity and wetting for high speed processing over oily heatset inks. |
| U108 Matt Dry Offset UV | 2 | 7 | Low | No | Matt varnish for dry offset application via the spare ink duct. |
| U309 High Gloss Dry Offset UV | 8 | 7 | Low | No | High Gloss version of U108. |
| U194 Super Matt UV | 1 | 5 | Medium/High | No | Ultimate smooth matt appearance of <5 gloss points. |
| U481 High Cure WP Gloss UV | 7 | 8 | Low | No | High scuff and rub resistance for spirits bottle packaging. |
| U472 Playing Card UV | 7 | 8 | Medium/Low | No | Highly specific slip properties for game and casino cards. |
| U409 Release Gloss | 8 | 8 | Very Low | No | High release surface making it suitable for lottery scratch cards etc. |
| U400 Bookjacket Lacquer | 8 | 7 | Low | No | Highly flexible with increased crease and crack resistance for book covers. |
| U728 High Gloss Digital UV | 8 | 8 | Low | No | High wetting high hold out for digital coaters. |
| U404 High Adhesion Gloss UV | 8 | 7 | Low | No | High adhesion to a variety of plastics including PP, PE, etc |
| U344 High Gloss Steinemann UV | 8 | 7 | Low | No | Improved performance offline over conventional inks. |

Cleaning chemicals – many others also exist to suit all pressroom needs and requirements.

| Product | Description |
|------------------------------|---|
| C785 UV Anilox Cleaner (NEW) | deep cleaner in gel form to dissolve dried UV deposits. |
| C806 Fast EPDM Wash | fast evaporating but still safe for EPDM as well as Nitrile compounds. |
| C848 AIII Combiwash EPDM | medium/slow evaporating for deeper extended cleaning – EPDM and Nitrile safe. |

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Additives

| Product | Description |
|----------------------------------|--|
| <i>AD002 Wetting Silicone</i> | improves surface slip and wetting over inks and substrates reducing cratering effects. |
| <i>AD007 UV Liquid Initiator</i> | Increase drying of UV Varnish. |
| <i>AD008 UV Antifoam</i> | reduces aeration enabling faster pumping. |

Pearlescents- Available in a variety of shades and lustres according to individual taste and requirement.