

PARAGON INKS

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UVDRY FLEXO SCRATCH – OFF PRODUCTS

Description

This information sheet provides recommendations and details for press set-up of UV Flexo coatings to allow the production of scratch-off metallic panels. Please note this ink range contains Benzophenone.

This ink range complies to the EuPIA Exclusion Policy and is not recommended for indirect food packaging without the presence of an absolute barrier, such as glass or metal.

Product Range

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| UvDry Flexo New Scratch-Off Lacquer L501 |
| UvDry Flexo Tinted Scratch-Off Base Lacquer L536 |
| UV Flexo 1-Pk Scratch-Off Soft Silver MET2022 |
| UvDry Flexo Scratch-Off Metallic Varnish MV830 |
| UvDry Flexo New Silver Paste 1957 |
| UvDry Flexo New Dense Scratch-Off Black B2070 |
| UvDry Flexo Scratch-Off Overlacquer L574 |

Application

All constructions rely on a smooth, even coverage of the Scratch-Off Lacquer L501, in the 1st station to provide the base coat. L536 can also be used as the base coat this is tinted blue to aid registration. In all applications, the lacquer is applied and fully cured prior to printing the metallic coatings.

Silver has been chosen as the first colour down as it should offer the best opacity and release properties of subsequent coatings. Please contact Paragon Inks for recommendations if a gold finish is required. A typical print sequence for a high security application is as follows.

Note: For promotional, low and non-security type applications, results may be achieved using less stations, alternative colour mixes and lower volume deliveries.

| Print Station | Coating | Anilox Details |
|---------------|---|--------------------|
| 1 | Scratch – Off Lacquer (L501) or (L536) | 6.0 - 12.0 volume |
| 2 | Scratch – Off Silver (MET2022 or MV830 blended 70% to 30% 1957 Paste) | 10.0 - 15.0 volume |
| 3 | Scratch – Off Black (B2070) | 8.0 - 12.0 volume |
| 4 | Scratch – Off Black (B2070) | 8.0 - 12.0 volume |
| 5 | Scratch – Off Silver (MET2022 or MV830 blended 70% to 30% 1957 Paste) | 10.0 - 15.0 volume |
| 6 | Scratch – Off Silver (MET2022 or MV830 blended 70% to 30% 1957 Paste) | 10.0 - 15.0 volume |
| 7 | Scratch – Off Black (B2070) for text | 6.0 - 8.0 volume |
| 8 | Scratch – Off Lacquer (L574) | 8.0 - 14.0 volume |

Note: The lacquer L574 can be used in the final station of the construction to aid high security anti-tape removal. This will also improve the rub and scuff properties of the silver, if required.

Recommended quality tests to be carried out at set-up & during print run:

It is strongly recommended that quality tests be conducted on press during set-up and running of the print run. It is also recommended that samples of each print run be retained for reference and ageing tests.

1. Ensure the lamps are operating efficiently in each unit.
2. During set-up ensure an even film weight of base coat L501 or L536, is carried across the web.
3. For the first colour down, ensure good cure. Test cure with side of hand. No smudging or marking-off should be evident.
4. Check that scratch-off across the web meets your standard.
5. Repeat this process for each subsequent unit in turn.
6. Finally test the hiding power / opacity and scratch-off properties versus your internal standard.

Other Information

Products must be mixed/stirred thoroughly to ensure consistency prior to printing, failure to do so may alter the performance or finish of the inks and lacquers.

When printing on digitally printed labels we would recommend corona treatment of the Digital image prior to applying the lacquer for the best results. Thorough testing is recommended initially to ensure a satisfactory result is achieved.

Please note that the film weight of the base release coating is important in achieving a good result. If too low a film weight is applied, the metallic inks on top may tighten up over time resulting in poor scratch-off properties. Paragon has available a tinted version of the base lacquer to aid application. Contact Paragon directly for more details.

Paragon strongly recommends that ageing tests be carried out when printing scratch-off labels for the first time as it is necessary to monitor the scratch-off properties to ensure that a satisfactory result has been achieved and is consistent over time.

Storage & Shelf Life

All products have a guaranteed shelf life of 12 months, but storage conditions are imperative. The container should be closed immediately after use and stored in a dry area at 5-18°C away from direct sunlight. This guarantee only applies to sealed, unopened containers.

NB The metallic is shipped as a 2-pack system. When the 1957 Silver Paste is mixed with the MV830 Metallic Varnish, the resultant blend will gel solid within 12 hours. It is important therefore that press units must be cleaned down before being left overnight or for any length of time.

The information contained in this General Information sheet is based on the experience of Paragon Inks (Holdings) Limited and our internal laboratory test procedures. It is not to be interpreted as a warranty or guarantee in any form as conditions and variables beyond our control can affect the end result. We recommend press trials when using new substrates and other print related variables for suitability purposes. We reserve the right to alter any product data as a result of technical or manufacturing processes.

Web: www.paragoninks.co.uk • Email: orders@paragoninks.co.uk

Tel: +44 (0)1506 401260 • Fax: +44 (0)1506 400009

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