

Series 140-3107/XXX

Solvent-based Scratch-off Inks

The solvent-based scratch-off inks of Series 140-3107/XXX combine high productivity with a maximum opacity and good scratch-off properties. Moreover, the inks stand out due to their good levelling, fast printability and high light-tightness. The inks are press-ready.

To ensure a lasting scratch-off ability, we recommend using the preprint varnish Series 140-3107/VD (77.55) or, after preliminary testing, a suitable release varnish in offset printing. If required, 5 to 15 per cent of the thinner Series 300-017 can be added to the preprint varnish.

Please note: Contrary to the preprint varnish, only the thinner Series 10-010 may be used for the scratch-off inks. All other thinners reduce or harm scratch-off properties. The print realisation must always be secured by preliminary tests, as many different factors influence the result.

The product range of solvent-based scratch-off inks includes:

- Series 140-3107/VD: Preprint varnish, colorless
- Series 140-3107/00: White
- Series 140-3107/33: Black
- Series 140-3107/100: Silver, soft
- Series 140-3107/103: Gold, soft

Specifications

Thinner scratch-off inks	Series 10-010
Addition ratio	10–20 % by weight
Thinner preprint varnish	Series 300-017
Addition ratio	5–15 % by weight
Cleaner	Series 200-BRS
Mesh	White: 90.48 Black: 90.48 Silver: 90.48 Gold: 90.48 Preprint varnish: 77.55 (depending on the substrate, the varnish can also be printed thinner, in which case preliminary tests are necessary)
Drying	Air
Squeegee	65 shore
Substrates	Paper, cardboard, PVC (hard & soft), OPP (pre-testing required), offset (varnished)
Further processing	Punching, cutting
Available quantities	1 kg, 5 kg, 25 kg
Shelf life	See information on the container lid.
Others	Stir well before use. Protect from light.
Processing information	<ul style="list-style-type: none"> • A double-sided coating by the offset printer with a suitable dispersion varnish (suitable for screen printing) is advisable. However, it must be ensured that the offset print has dried sufficiently. • The stencil should be as flat as possible to ensure a uniform height of the ink film over the entire surface. • Sufficient curing of the preprint varnish is essential before being overprinted with the scratch-off ink (recommended are at least 24 hours). The varnish should have a closed and smooth surface.

- Also, one must pay attention to a sufficient hardening of the scratch-off ink, no lubrication film must remain on the preprint varnish after scratching. This is particularly important if part of the motif consists of dark colors. In this case, please note that the energy requirement for UV scratch-off inks increases by up to 80 % when printing on dark substrates.
- Due to thermoplasticity, blocking may occur. Therefore, the pile temperature must not exceed 35 °C. The pile height shall be kept accordingly low, especially if high pressure may occur at certain points.
- The print must be placed on the sheet in a way that when cutting the sheet, the press bar does not directly lie on the scratch-off ink.
- Double-sided applications are to be checked very critically; the scratch-off inks must not have any contact with each other under any circumstances.

Processing information for flexo printing

- Our solvent-based scratch-off inks can also be used in flexo printing by adding approximately 10–30 % by weight of the thinner 10-010 and/or the accelerator 10-0328. We recommend conducting preliminary tests.

Important information: Our technical advice whether spoken, written, or through test trials corresponds to our current knowledge to inform about our products and their use. This is not meant as an assurance for certain properties of the products nor their suitability for each application. You are, therefore, obliged to conduct your own tests with our supplied products to confirm their suitability for the desired process or purpose. The selection and testing of the ink for specific applications is exclusively your responsibility. Should, however, any liability claims arise, such claims shall be limited to the value of the goods delivered by us and utilized by you with respect to any and all damages not caused intentionally or by gross negligence (T16/T12/T30/T35 / V3 / 07/2023).