

Series 140-5123-05/02

UV Protective Varnish, semi-gloss, antimicrobial

The use of the UV-curing protective varnish Series 140-5123-05/02 optimises and prolongs the light fastness of printed products. The varnish has an antimicrobial mechanism which inhibits enzyme activity and the multiplication of microbes in the presence of moisture or humidity. The active agent released on the coated surface eradicates over 99.99 per cent of germs, with a germ reduction value of > 3 log levels tested according to JIS Z 2801-2010 NORM.

Furthermore, the varnish contains UV absorbers and HALS (hindered amine light stabilisers), increases the mechanical resistance and ensures a semi-gloss varnish surface. Among others, the application is possible in flatbed screen printing, on fully automatic machines (cylinder), in rotary screen printing (Storck, Gallus etc.), on coating machines, in UV flexo printing or in coating units.

The semi-gloss UV protective varnish stands out due to its high scratch resistance, resistance to water and caustic soda, but also to chemical and mechanical effects. A typical field of application is the use for in-mould applications.

Specifications

Thinner	Series 500-017 (if required)
Addition ratio	5-10 % by weight
Retarder	-
Addition ratio	-
Hardener	Series 600-HDS
Addition ratio	Up to 10 % by weight
Cleaner	Series 500-URS
Mesh	77.55 to 165.27
Curing	100-300 mJ/cm ² (Technigraf Integrator)
Substrates	Printed goods (adhesion test recommended), HDPE, PP pre-treated/coated
Indoor / outdoor use	Outdoor, Q-UV (A) up to 3000 hours ISO 4892-3
Further processing	Punching, cutting
Overprintability	Contains surface-active substances, overprintable with Series 590-05/823 UV Protective Varnish, glossy
Available quantities	1 kg, 5 kg, 20 kg
Shelf life	12 months
Others	Stir well before use. Application 2-18 µm as well as flexo printing (screen printing, roll application) possible. The antimicrobial surface provides additional protection for general hygiene but does not replace regular cleaning with a disinfectant.

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 (T12 / V1 / 01/2021)