



who has a comprehensive range of inks and
printable security features for ID card and
secure document production?

we do with SunCarte™.

working for you.



Sun Chemical inks and related products for laminated ID and security cards.

With its unrivalled technical resource and service network, Sun Chemical prides itself on being the premier global supplier to many varied industrial and high tech markets. Characterised by the need for constant innovation and superior service, these markets demand a range of technologies, skills and experience that only Sun Chemical can provide. This diversity and depth of expertise in printing allows ideas and technologies to be leveraged across applications and markets producing unique products and related services.

Sun Chemical supplies a unique, complete range of inks for all print processes used in the manufacture of security documents and laminated ID cards. The SunCarte range features screen and offset inks and varnishes used in the production of secure documents and ID cards. We are also approved suppliers of a number of secure products used in the currency, secure document and brand protection industries meeting the demands of the highest level security printers.

Security document and ID card inks

- Specifically formulated PC lamination products
- Bespoke UV curing offset inks
- Conventional and UV curing screen inks
- Inks for all substrates, PVC, PET and PC
- Conductive inks for RFID

Security solutions

- Overt and semi covert effects
- Covert features
- Bespoke products
- Multilevel combinations
- Associated equipment and software

Products for ID card applications

Brand name	Type	Products	Features	Benefits	Impact	Use examples
SunCarte UV offset	UV curing offset litho inks	Four colour process set, Pantone® blending scheme and bespoke shades made to order	Optimised resin chemistry	Bond strength way in excess of required standards	Security and peace of mind	All forms of laminated plastic cards, such as credit, debit, loyalty, membership, gift and hotel key cards
			Temperature resistant pigments	Minimal colour change on lamination	Consistent colour reproduction	
			Excellent litho properties	Optimised on press performance	Easy to use	
			Excellent adhesion to common plastics	Robust prints	Prints not easily damaged during post processing	
SunCarte Solarsmart ID	UV curing screen inks	Opaque white and clear varnish	Optimised resin chemistry	High degree of bond strength even at high percentage coverage	High degree of delamination resistance	Laminated polycarbonate cards such as ID cards, driving licenses and passports
			Excellent adhesion to polycarbonate	Robust prints	Prints not easily damaged during post processing	
			Super opaque white	Facilitates use of clear core layers for 3D effects	Simple but effective overt security features	
			Non yellowing clear	Used as an adhesive or carrier for security features	Numerous options for overt and covert security features	

Security features for card applications

Brand name	Type	Products	Features	Benefits	Use examples
SunGuard™ UV responsive	Ultra Violet fluorescing	Red, Blue, Yellow, Green and combination effects	Covert effect revealed under UV light source	Low cost, easy to use and readily available verification equipment	ID Cards, Brand Protection, Secure Documents, Financial Cards, Membership Cards
			Security effect dependant on colour and effect choice	Security level adaptable to suit requirement	
SunGuard™ Apollo	Infra Red fluorescing	Blue, Green, Red	Covert effect revealed with IR laser light source	Simple verification method	ID Cards, Brand Protection, Secure Documents, Financial Cards
			Covert effect read with S50 or S150 reading device	Safer verification with self contained mini read device	
SunGuard™ Orion	High level secure taggant	Single taggant	Highly secure covert effect invisible to usual UV / IR sources	Remains covert unless detected with specialised reader	ID Cards, Brand Protection, Secure Documents
			Covert, high security effect read with an S150 reading device	Simple to use, low cost verification device	
SunGuard™ SunShift & SunShift Premium	Viewing angle dependant colour change pigments	Multiple colour options and multiple security levels	Overt feature in varying degrees of security linked to pigment	Can be used as a simple deterrent to high level visible security effect	ID Cards, Brand Protection, Secure Documents, Financial Cards, Membership Cards
			High degree of security provided by SunShift Premium pigments	Controlled pigment distribution ensures high levels of security	

For detailed information please refer to the individual product data sheets or your local Sun Chemical location.

Our products are intended for sale to professional users. The information herein is general information designed to assist customers whether our products are suitable for their application. All recommendations are made without guarantee, since the application and conditions of use are beyond our control. We recommend that customers satisfy themselves that each product meets their requirements in all respects before commencing a print run. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical be liable for damages of any nature arising out of the use or reliance upon this information. Modifications of the product for reasons of improvements might be made without further notice.



Sun Chemical
Norton Hill, Midsomer Norton
Bath BA3 4RT, United Kingdom
Tel: +44 (0) 1761 414 471
Fax: +44 (0) 1761 416 609
www.sunchemical.com