

JUST IMAGINE

SUN CHEMICAL – GLOBAL SUCCESS IN A WORLD OF COLOUR

Sun Chemical is the world's largest producer of printing inks and pigments. It also is a leading provider of materials and services to packaging, publication, coatings, plastics, cosmetics and other industrial markets. Sun Chemical has more than 300 locations worldwide to provide customers local service with a global perspective.

Sun Chemical has an historic pedigree, tracing its history back to 1818. Since then, Sun Chemical has expanded its operations, bringing many well-known companies and brands under its umbrella including Coates Lorilleux, Hartmann, US Ink and Kohl & Madden.



Sun Chemical Ltd.
Cray Valley Road
St Mary Cray, Orpington
Kent BR5 3TT
United Kingdom
Tel +44 1689 899666
Fax +44 1689 878262

Hartmann Druckfarben GmbH
Borsigallee 13
D-60388 Frankfurt am Main
Germany
Tel +49 (0) 69 4000 0
Fax +49 (0) 69 4000 286

Sun Chemical Corporation
35 Waterview Boulevard
Parsippany, NJ 07054-1285
United States of America
Tel +1 973 404 6000
Fax +1 973 404 6001

WWW.SUNCHEMICAL.COM

Although the information presented here is believed to be reliable, Sun Chemical Corporation makes no representation or guarantee to its accuracy, completeness or reliability of the information. All recommendations and suggestions are made without guarantee, since the conditions of use are beyond our control. There is no implied warranty of merchantability or fitness for purpose of the product or products described herein. In no event shall Sun Chemical Corporation be liable for damages of any nature arising out of the use or reliance upon the information. Sun Chemical Corporation expressly disclaims that the use of any material referenced herein, either alone or in combination with other materials, shall be free of rightful claim of any third party including a claim of infringement. The observance of all legal regulations and patents is the responsibility of the user.

Printing Inks and Coatings: SunChemical • Concept: Achim Kreil GmbH • www.achimkreilgmbh.de

SC SF XXX XXXX GB

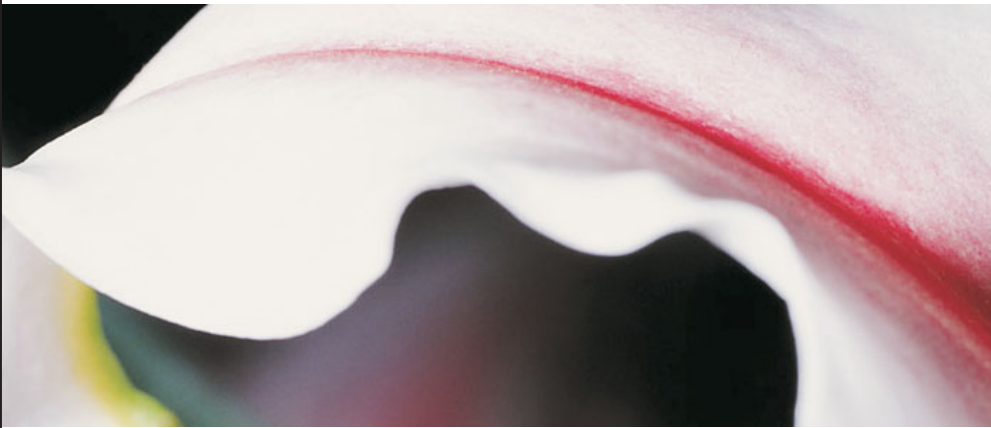


SHEETFED EUROPE

PROCESS INKS

INTENSE

NEW INTENSE SHEETFED PROCESS INKS FROM THE WORLD'S LEADING INK MAKER



For some sheetfed printing **applications** even the best sheetfed process inks are not intense enough for all **applications**. To meet specialist needs for a more intense product Sun Chemical have developed INTENSE™ process inks which are completely mineral oil free and are made from novel vegetable oil chemistry.

INTENSE™ process inks perform well on straight printing and long perfecting presses and can be used on the majority of substrates where a low or reduced ink film-weight or increased print density is a requirement. INTENSE™ process inks can be used for both long run work and short run work on all sheetfed offset presses.

INTENSE™ PROCESS INKS

BRILLIANT

Provide excellent print definition and ink trapping resulting in brilliant prints.

EXCEPTIONAL

Have exceptional lithographic stability and are duct fresh.

RAPID

Are fast setting and rapid drying which allows fast print finishing and further processing.

RESISTANT

Prints show very good mechanical resistance and rub resistance.

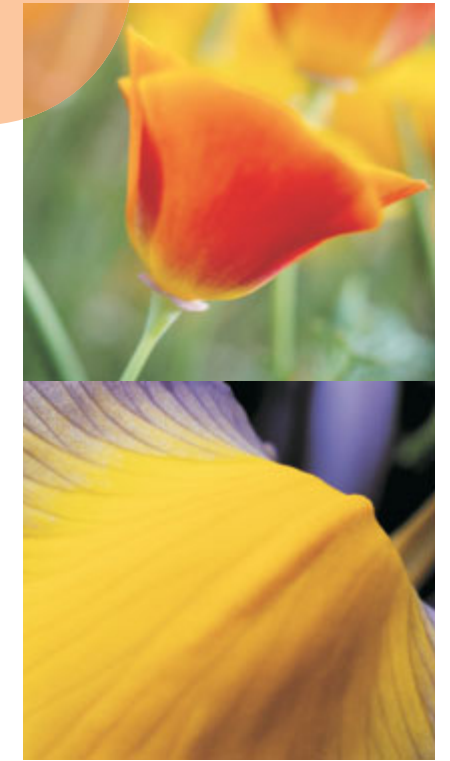
HIGHLY VERSATILE

Sun Chemical INTENSE™ series can be used on all paper and board substrates normally used in sheetfed offset printing and when used together with the range of SunFount fountain solutions and SunCoat coatings can increase productivity in perfecting and straight printing when lower film-weights or higher intensity are needed.



INTENSE CHARACTERISTICS

- High intensity
- Low film-weight possible at normal print density
- High intensity at normal print film weight
- Excellent ink trapping
- Very fast up to colour with reduced start-up waste
- Duct fresh
- Vegetable oil based
- Complies with Toys regulations and CONEG (heavy metal regulation)
- Excellent setting and drying
- In-line and off-line varnishable (water-based coatings)
- Off-line varnishable (suitable UV coatings)
- Runs with and without alcohol in the fount
- Suitable for all presses
- Perfect for books, magazines, commercial and publications, advertising, and packaging.
- Standard light-fastness, solvent and chemical resistance
- Complies with ISO 2846:1
- Proven on perfecting presses, 8, 10 and 12 colour
- Can be used on perfecting presses equipped with coating units for both sides.







RESEARCH AND DEVELOPMENT

Sun Chemical is not only involved in the research and development of printing inks but also is a leader in developing and producing pigments, polymers, resins and additives for printing inks. These parallel and convergent processes allow synergies and support application focussed formulations.

INTENSE™ is a result of both R&D and the synergy possible within Sun Chemical. Customer technical service is part of the complete offering from Sun Chemical to improve your productivity and profitability. Our extensive CTS also ensures timely feedback from our customers on new

requirements in the world of printing. We listened to our customers demands for increased intensity or low film-weight in a versatile product and now we can offer an INTENSE™ solution.

Sun Chemical still leading the way.

Process Inks		Light fastness ISO 2835	Alcohol ISO 2837	Solvent Mixture ISO 2837	Alkali ISO 2838
 Yellow	INT 09	5	+	+	+
 Magenta	INT 39	5	+	+	-
 Cyan	INT 38	8	+	+	+
 Black	INT 24	8	-	-	+

SunChemical®