



Solutions by Printing Ink

Image-to-Print, HCMC 19 April 2017

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SunChemical[®]

a member of the DIC group



working for you.

A world map where the landmasses are represented by a dense collection of small, overlapping squares in various colors including red, blue, yellow, green, and orange. The background is a solid light blue. At the bottom, a red banner contains the text "Who We Are".

Who We Are

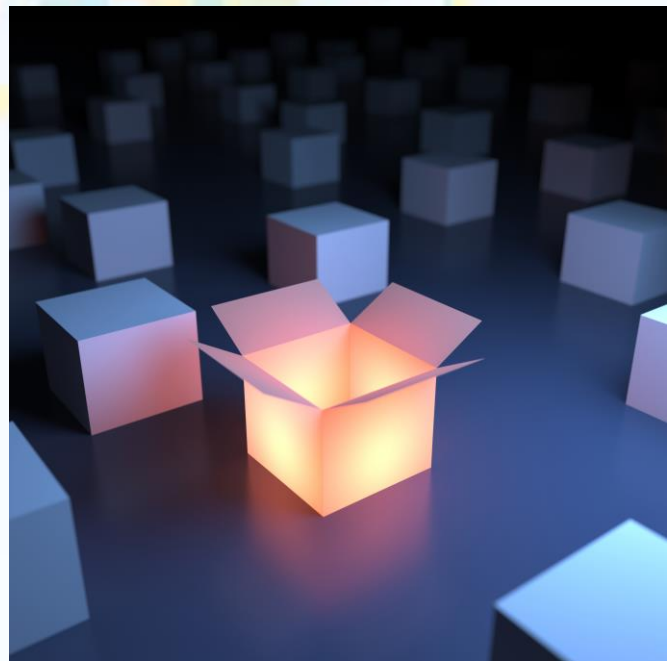
A partner that transforms with you

SunChemical®

a member of the DIC group



Today's environment requires more than change.
It demands transformation — and a partner that's
willing to transform with you.



The world's leading producer of inks, coatings and pigments

Sun Chemical's global presence, combined with our parent company DIC, allows for the delivery of local service and support customized to your market.


20,000+
Employees

63 
Countries
176 
Subsidiaries



History of market innovation

Some examples of Sun Chemical's legacy of innovation:

1818

Sun Chemical's roots begin with Lorilleux, one of the first ink producers

1957

Ansbacher-Siegle merges with Sun Chemical to form today's Performance Pigments division

1966

Sun Chemical begins to manufacture quinacridone, marking the company's entry into the high-performance pigments market

1993

Sun Chemical acquires a top producer of cold set publication inks, United States Printing Inks

2012

Partnership with X-Rite/Pantone and Esko on PantoneLIVE™

Present

Continued global expansion and investment in new technology

1936

First pigmented flexo inks

1958

Development of solvent-based flexo inks on polyethylene films

1969

Sun Chemical patents first UV inks

1987

DIC acquires Sun Chemical

1999

DIC acquires Coates Lorilleux

2014

Strengthens commitment to Latin America with Tintas and Sinclair acquisitions

Driving the future of innovation

17 

R&D locations

\$100M

per year invested in R&D



2 

average number of patents filed
per month by Sun Chemical

Our commitment: Quality. Service. Innovation.

Meeting the essential needs of our customers in order to help them improve productivity, create new revenue opportunities and contribute to a more sustainable future.

Quality

Comprehensive and consistent offering of world-class products, services, and solutions that save time and money.

Service

Our world-class technical and customer service consistently delivers on our promises and collaborates with customers to deliver solutions that solve their unique challenges.

Innovation

With 17 research and development centers, Sun Chemical averages two patents per month with regular breakthroughs in ink, pigment, and application material technology.

quality

service

innovation

Inks, coatings and pressroom products

Sun Chemical provides pressroom products for a variety of printing processes and markets:

Printing Processes

- Flexo
- Gravure
- Lithography
- Screen
- Digital
- Pad Printing
- Laminatin Adhesives

Markets

- Packaging
- Offset/Commercial
- Publication
- Graphics/Displays
- Industrial
- Security/Brand Protection
- Printed Circuits
- Electronic Materials



Pigment products

Sun Chemical provides pigment products for a variety of markets:

Types of Pigments

- Classical
- High Performance
- Inorganic/Organic
- Metallic
- Pearlescent
- Preparations

Markets

- Coatings
- Cosmetics
- Conventional and Digital Inks
- Plastics
- Specialties




Principle products of DIC



48%

Printing Inks



14%

Application
Materials



22%

Polymers



16%

Fine Chemicals

Seamlessly integrated to benefit customers

DIC and Sun Chemical offer complementary products that can produce some of the most enticing solutions for our customers. For example:

- Sun Chemical UV inks and electronic materials combined with DIC magnetic tapes optimize the manufacture of laminated plastic cards
- DIC lamination adhesives and Sun Chemical coatings create leading-edge food-safe packaging
- DIC resin technology used with Sun Chemical pigments can produce superior benefits for automotive coatings





Innovation

The world's leading printers choose Sun Chemical

Improve productivity, stand out on shelf, and contribute to a more sustainable future with innovations in:

- Color Management
- Low Migration/Compliance
- Barrier Materials
- Pressroom Efficiency
- Credit/Laminated Card Solutions
- Special Effects
- Brand Protection
- Electronic Materials
- High Performance Inks





Barrier Materials

Proven and reliable solutions to lightweight packaging

Sun Chemical offers innovative barrier materials that lightweight packaging and have a direct effect on the shelf life and integrity of the product.

These include:

- Barrier coatings
- Barrier adhesives
- Coated films



Enhance shelf life while maintaining package integrity

Our innovative barrier products give you packaging that is:

- Flexible
- Cost effective
- Recyclable
- Biodegradable
- Press ready





Special Effects

Packaging that pops off the shelf by engaging the senses

With SunInspire™ coatings, brands can connect with consumers through the senses, adding five important dimensions:

- Emotional engagement
- Visceral reaction
- Connection between perception and reality
- Creation of brand platform for product extensions
- Trademarked scent





Low Migration/Food Compliant

Maintaining the integrity of sensitive packaging

Sun Chemical is a market leader in the development and promotion of inks and coatings designed for low migration sensitive packaging applications such as:

- Food
- Pharmaceutical
- Personal care
- Tobacco
- Toys





Brand Protection

Experts in anti-counterfeiting solutions and printing

With brand protection products from Sun Chemical:

- Safeguard your brand with unique, innovative and proven security features
- Protect your products no matter where they're sold and distributed

We work with brand owners and converters from strategy formulation through implementation.





Pressroom Efficiency

Multi-purpose inks work on multiple substrates and printing processes

Designed to maximize pressroom efficiency and simplify the overall print production process, Sun Chemical's SunUno® multi-purpose ink system can be used in flexographic and rotogravure printing processes. Intended for surface printing and adhesive lamination, the system can be used for a variety of end-use applications, including:

- Food packaging for confectionary and snack foods
- Lidding materials
- Medical laminates



Meeting the high quality demands when printing at very high speeds

Sun Chemical's SunStrato® high performance lamination inks for pouches and other laminated bag structures produce high-quality graphics that pop off the shelf even when printed at very high press speeds. These inks offer:

- Strong adhesion
- Good bond performance on a variety of substrates
- Maximum color strength
- Low solvent retention
- Clean printing and film versatility





Color Management

Delivering consistent brand color — anywhere, any substrate

By turning to Sun Chemical for a digitally color managed workflow, brand owners and printers can produce the same color consistently worldwide and vastly improve productivity with:

- SunDigiGuide
- SunDigiProof
- SunMatch
- Color instruments and software resell
- PantoneLIVE
- SunColor Consulting
- SunColorHouse



A color calibration chart with a color checker tool. The chart features a series of color patches arranged in a curved, overlapping pattern, transitioning through a wide range of colors from deep blues and purples to bright yellows and oranges. A color checker tool, which is a small, square, metallic device with a circular lens, is positioned in the lower right corner of the frame. The tool is resting on the chart, and its lens is focused on the color patches. The background is a soft, out-of-focus gradient of the chart's colors.

Services



Strategic sustainability services

Sun Chemical provides a variety of economically and environmentally friendly products and services designed to help you achieve your individual sustainability goals.

- Measuring performance and recording success
- Energy management policy and strategy
- Energy auditing to identify cost savings
- Low- and zero-carbon energy sources



Data-driven sustainability

Our data-driven approach focuses on seven key metrics and provides more transparency through continuous monitoring and reporting.

1. Energy consumption
2. Energy conservation
3. Energy carbon footprints
4. Process waste reduction
5. Water consumption
6. Materials safety
7. Employee safety

Migration compliance testing

Sun Chemical can help you determine migration compliance by testing printing products for packaging that is in contact with food or pharmaceuticals. This testing helps:

- Refine pressroom procedures
- Eliminate chances of cross contamination

This also includes expert guidance on compliance, permitting and environmental management systems.



**Narrow Web, Tag
and Label**

Multi-purpose

Food

Folding Carton

Healthcare

Brand Protection

**Plastic
Containers**

Shrink Sleeve

Color Management

Tobacco

Towel + Tissue

Drink

Corrugated

**Low Migration
Compliant**

Flexible Paper

Flexible Film

Beauty

Metal Deco