

Corium Works Better at Your Presses

Particular Locations on Presses	Common Problems	Solutions	Why Corium is better?
Common Rollers, Anilox rollers, Plastics, Rubber, Color switch	Hard ink deposits	Corium Z86 / 86C	<ul style="list-style-type: none"> • Non-toxic, non-harsh-solvent and non-flammable. • Ideal for colour switch processes in removing hard deposits and build-ups on printer rollers. • It ensures no damage to all kinds of ink rollers, anilox rollers or plastics in equipment. • Excellent for deglazing rollers. Also suitable for uses in air compressor (pump). • Provides excellent color density, reduces dot gains and consistently improve print quality.
Common metal parts	Grease stains, Dirt	Corium Z97	<ul style="list-style-type: none"> • Highly concentrated cleaner for massive diluted usage. Convenient and economical. • It eliminates grease stains, dirt and other common stains at printing equipment and plants.
Presser drums	Ink stains	Corium Z102	<ul style="list-style-type: none"> • Ink remover, ease-of-use. Eliminates hardened ink stains on metal parts. • Revitalizes blankets and rollers as it removes ink, varnish and grime. • Non-corrosive, no abrasion on metal surface. Excellent tack restorer. • Ideal for presser drums, instantly cleans the stubborn ink stains on both sides of a presser drum. • Designed for web fed presses, removes both oil base and moisture set inks, prevents gum and varnish build-ups.
Chains, Rollers, Shafts, Springs	Powder deposits	Corium Z127	<ul style="list-style-type: none"> • This ultimate penetrating oil releases seize-tight parts instantly, facilitates all maintenance processes. • Especially suitable for powder deposits on cleaning chains. • Good for water rollers, shafts and springs. • Special oil-based characteristics allow lubrication and protection after cleaning.
Paper-cutting tops and knives	Adhering conditions	Corium Z199	<ul style="list-style-type: none"> • Super lubricant with high silicone content. • It effectively protects and lubricates paper cutting tops and knives. • Prevents the adhering conditions incurred on knives and parts by the underlying adhesives.
Drainages, Connecting tubes	Clogs	Corium 50	<ul style="list-style-type: none"> • Superior exothermic solvent. • Rapidly dissolves the clog at drainage and connecting tubes.
Common metal parts	Powder stains, Rusts	Corium Z10R-R	<ul style="list-style-type: none"> • Technological advanced chemical that removes all powder stains and rusts attached to equipment. • Provides protection layer on metal parts and surfaces. • Anti-rust, non-toxic, safe and easy-to -use.

Corium Industrial Chemicals - Your Ultimate Choice

Corium Z86 "Safety-Plus" Industrial Cleaner Concentrate

A research-developed product designed for use in industrial, printing plants, manufacturing and food processing plants. Completely non-flammable. Concentrated formula dilutes effectively with water. Also available in "Clear" formulation as Corium Z86C.

Corium Z97 "Big Blue" Concentrated Multi-Purpose Cleaner

A highly effective chemical compound consists of special additives that transform ordinary water into an effective cleaning solution. It is suitable for cleaning and degreasing stubborn and solid ink stains on presses parts, machinery, or even engines. Heavy grease can be easily removed.

Corium Z102 Superior Paint, Ink & Varnish Remover

Penetrates into the existing ink, paint, lacquer, phenolic finishes or varnish coating and quickly destroys the molecular attraction between the ink and base materials.

Corium Z127 "Bolt-Ease" Advanced Penetrating Oil

A special maintenance-formulated product designed to ease the arduous problems of seizure, corrosion and free rust-frozen components, so common in maintenance. Also available in bulk as Corium Z1270.

Corium 199 Super Silicone Lubricant

A super silicone lubricant designed to lubricate and preserve any material against heat, cold, moisture, weathering and corrosion. Ideal for rapid lubrication.

Corium 50 "Exothermic" Industrial Solvent for Drains

A highly-activated industrial solvent that rapidly dissolves and disintegrates stoppages in pipes and drains.

Corium Z10R-R Liquid Rust Remover & Passivator

A fully concentrated, liquid rust remover and oxidation inhibitor designed to replace dangerous sulphuric and hydrochloric acids.

Please check with your local Corium Industrial Chemicals Distributor for a comprehensive list of industrial solutions that will exceed your expectations.



About ITW

ITW (NYSE:ITW) is a Fortune 200 global multi-industrial manufacturing leader. The company's seven industry-leading segments leverage the unique ITW Business Model to drive solid growth with best-in-class margins and returns in markets where highly innovative, customer-focused solutions are required. ITW has nearly 50,000 dedicated colleagues in operations around the world who thrive in the company's unique decentralized and entrepreneurial culture. To learn more about the company and the ITW Business Model, visit www.itw.com.

To offer the best service to each market segment, ITW PP & F Korea Limited operates the following divisions that are branded uniquely for the most prominent recognition by users and customers:

 **OMEGA Ultimate Lubricants**
Specializing in lubrication solutions - greases, oils and additives

 **MAGNA Welding Alloys**
Specializing in gas and arc welding consumables for maintenance

 **CORIUM Industrial Chemicals**
Specializing in industrial & commercial chemicals and adhesives

 **ZETALUBE Lubricants**
A new lubricity dimension evolved from experience

WE SUPPLY SUPERIOR PRODUCTS THAT MAKE MAINTENANCE:

- FASTER
- SAFER
- MORE RELIABLE

Our products are engineered to:

- Lower costs
- Reduce downtime
- Cut wastage

At ITW PP & F Korea Limited we are fully committed to a proactive approach to safety, health, environment and product improvement. Our commitment is well reflected in:

- Our continuous Research and Developments
- Our on-going in-house Training and our in-house Training Facilities
- Our comprehensive range of Quality Products
- Our many long-term Repeat Customers.

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Corium
Industrial
Chemicals

Performance Enhancement and Cleaning Solutions for Printing Industries

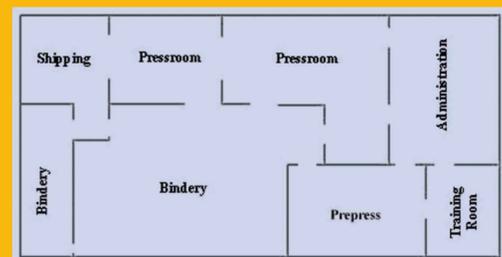


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Faster turnaround, shorter delivery time and consistently high print quality are the key success factors today's printing plants are trying to sustain or pursuing. While the presses technology has developed rapidly in the past few decades, the challenges of 'press cleaning' and 'equipment optimization' remain the most critical printing processes that affect the overall operation success and profitability of a printing plant.

Press cleaning accounts for 50% of all solvents used in printing process. And cleanliness of the equipment, whether they belong to the lithographic, flexographic or gravure printing processes, directly impacts on output quality, downtimes and maintenance costs.



A Typical Printing Plant Layout

As one of the leading industrial chemicals providers, Corium Industrial Chemicals has pioneered the technology of equipment optimization, performance enhancement and cleaning solutions for printing industries.

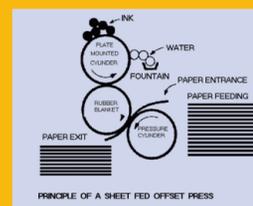
Corium's comprehensive range of chemicals specially designed for different kinds of presses has been welcomed by many important printers worldwide. Users have relied on the premium protection, lubrication and cleaning effectiveness delivered by Corium Industrial Chemicals in maintaining their plants. The substantial savings in lower downtimes, reduced maintenance costs have enabled customers of Corium to sustain and even elevate their competitiveness, and ultimately profitability.

The industrial maintenance experts and professional chemists at Corium Industrial Chemicals pledge their highest commitment to users all over the world. We welcome all printing practitioners and engineers to share their technical problems and Corium will deliver the highest quality and cost-effective solutions.

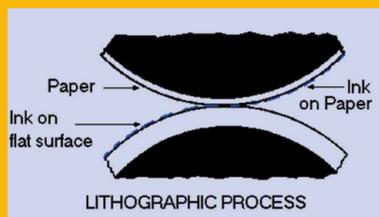
Types of Printing

Lithographic Printing

It is divided into 2 types: sheet-fed and web-fed. Sheet-fed presses run individual sheets of paper through the press, while web presses feed paper continuously from a large roll and can use either heatset or nonheatset inks. Once the image is printed onto the substrate, the paper is either fed back onto a roll or cut and/or trimmed into specific shapes and sizes. Web lithography is designed to print large jobs and is used for newspapers, books, catalogs, periodicals, advertising and business forms. Sheet-fed lithography is used mostly for short runs of books, periodicals, posters, advertising flyers, brochures, greeting cards, packaging and fine art reproduction.

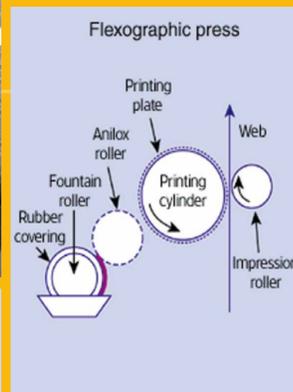
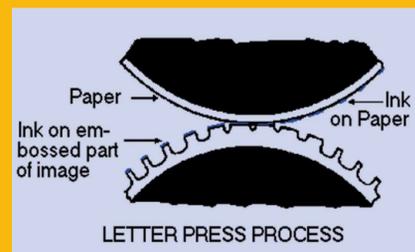


Offset Lithography was developed during the late 1800's in Germany and has become a very popular printing process. Offset Lithography is used to print newspapers, magazines, advertising, business forms, direct mail, etc. Offset is the most widely used printing process today.



Flexographic Printing

Flexographic printing, a letterpress process, uses photopolymer wash-off printing plates (letterpress plates) or variations of these (rubber printing plates) as printing forms. Using low-viscosity ink, it is possible to print on very different materials with screen rulings of up to 541/cm. Flexographic printing is a very fast, uncomplicated printing process suitable for packaging printing and multi-color newspaper printing. It has also found wide applications in printing for food & drinks packaging with plastics and non-absorbent stock. It is also used to print envelopes, pressure sensitive labels, etc.



Flexographic printing today consists of three basic types: the two roll unit, the two roll unit with a doctor blade, and the dual doctor ink chamber system. Two roll units are usually found on older flexographic presses, and on narrow web presses. Narrow web presses equipped for process colors often use the two roll unit with a doctor blade, and more modern wide web presses use the dual doctor ink chamber system. In addition to creating full-color materials, most flexographic presses accommodate laminating and die cutting processes to protect the product's final shape and size.

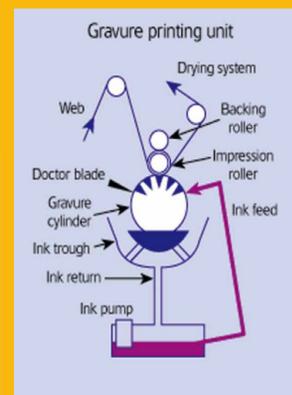
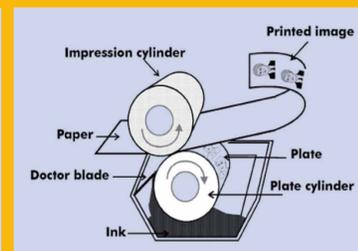
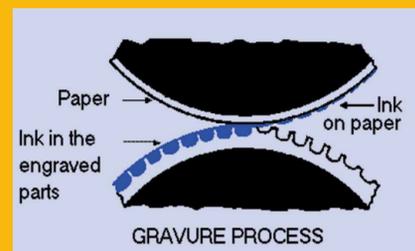
In its simplest and most common form, the flexographic printing system consists of four basic parts, namely fountain roll, ink metering roll (Anilox), plate cylinder and impression cylinder.

Gravure Printing

This printing process is used in high-output, high-quality rotary presses. Here the printing elements take the form of small cells on the surface of the gravure form cylinder. Through electromechanical engraving using a diamond stylus, the print image is generally transferred onto the chrome-plated copper cylinder. At the printing process, the printing cylinder is entirely ink-coated. A doctor blade then removes the excess ink from the surface and the only ink remaining is the ink in the cells. Then a rubber roller presses the paper web against the printing cylinder and the ink remaining in the cells is applied to the paper.

Gravure is another old printing process used to print packaging, magazines, wallpaper, gift-wrap, etc. The major advantage of Gravure is that it can print very long runs. Unlike Offset, Gravure uses a durable metal printing cylinder that can handle these types of long jobs. Multicolored magazines, catalogs, money and postage stamps are also printed using a form of Gravure (Intaglio). Large plant using gravure technology produces web up to 96 inches wide and travels at 3,000 feet per minute. It consumes about seven tons of paper with a production rate of 40,000 copies of 48 to 96 page magazines or other documents per hour.

There are, of course, other printing methods such as screen, electronic, etc., but these three processes dominate the global printing industry today.



How Corium Industrial Chemicals Benefits You

Corium Industrial Chemicals, a Division of ITW PP & F Korea Limited, has been pioneering the concept of **"Total Maintenance Chemical Solution"** since 1968 for Printing Plants and other industries in order to achieve the following objectives:

- Reduce inventories
- Minimise labour cost
- Improve equipment availability
- Shorten shutdowns and quicken start-ups
- Stretch overhaul intervals

Research and Development:

Corium Technical Research team is dedicated to working in close partnership with its Distributors and Customers to provide a premium quality and comprehensive product range with complete technical back up service.

Network of Distributors:

The competitive advantage of Corium Industrial Chemicals lies in its ability to satisfy Customers' application needs and supply products quickly through its extensive network of Distributors around the world.

Environmental Policy:

Corium Industrial Chemicals envisions environmental protection as an integral part of its business activities. We have an environmental policy aiming to minimize impact on our customers, employees and the community. Objectives set within the policy are directed at conserving natural resources and reducing waste.

Internet and Intranet site:

Corium Industrial Chemicals Consultants and its Distributors at various cities utilize updated information system and internet technology to revert on Customers' queries speedily.

Personal Service from our Technical Specialist:

Corium's highly trained Distribution Representatives and Chemicals Consultants are available to provide a complete package (ask for details from your local representative) to determine your individual maintenance needs which include the following:

Customer Support Service:

- Proactive investigation on problems and complaints
- Recommendations on maintenance applications
- Complete solutions to technical enquiries

In-House Training Program:

- Trained Representatives can conduct seminars and presentations on a continuous basis, covering subjects such as cost savings, product applications and health and safety requirements.
- In-house training programs are customised on request

On Site Visits:

- Regular on sites visits conducted by Chemicals Consultants and Distribution Representatives
- Request of on-site visits by Chemicals Consultants are welcome
- On-site demonstrations can be conducted by Distribution Representatives on request