IMPRIMA™ SD

SUPER HIGH RESOLUTION

waterless printing plates

HOW THEY WORK

Waterless printing plates

Toray is dedicated to bringing to market innovative solutions that use fewer natural resources. Waterless printing with Toray waterless offset plates will set you apart from your competitors with higher quality and a smaller environmental footprint.

It’s easy to replace conventional printing plates with waterless offset printing plates in any workflow to take advantage of the benefits of high resolution waterless offset printing.

SD Waterless offset plates from Toray feature a layer of silicone that is applied on the surface of the plate’s thermal sensitive layer. Plates are imaged using a thermal laser in a similar manner to imaging of conventional digital offset plates.

Toray Waterless Offset Plate Range

Toray’s new line of waterless offset plates features many important new capabilities including long run lengths without post-heating, strong chemical resistance and super high resolution.

Toray’s versatile line of waterless thermal plates is suitable for use in diverse applications such as labels, CD/DVDs, fine art reproductions, security printing and newspapers. It is also ideal for printers using UV curable inks for packaging printing on non-absorbent substrates as well as for sheetfed applications and publication printing on web presses that require exceptional image quality.

SUPER HIGH RESOLUTION DIGITAL WATERLESS OFFSET PLATES

- THERMALLY IMAGED DIGITAL WATERLESS PLATE IS IDEAL FOR DEMANDING SECURITY APPLICATIONS
- OUTSTANDING HIGH RESOLUTION
- RELIABLY REPRODUCES LINES AND DOTS OF LESS THAN 10 MICRON
- EXCELLENT COLOR CONTROL AND CONSISTENCY
- ENSURES STABLE REPRODUCTION OF BOTH AM AND FM SCREENED IMAGES

Major applications:

- GOVERNMENT AND CORPORATE DOCUMENTS
- BRAND PROTECTION AND ASSET MANAGEMENT PRODUCT
- BANK NOTES AND VALUE DOCUMENTS
- DEBIT AND CREDIT CARDS
- TICKETS AND EVENT PASS PRODUCTS
- PASSPORTS AND IDENTITY CARDS
- TAMPER-SENSITIVE LABELS
- PRODUCT AUTHENTICATION FEATURES ON PACKAGING
- STOCK CERTIFICATES
- POSTAGE STAMPS

IMPRIMA™ SD

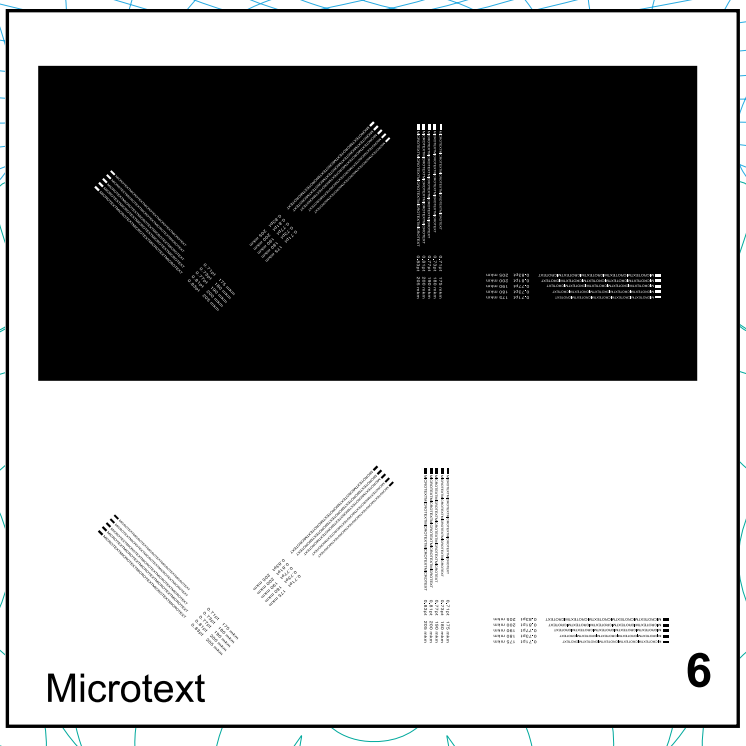
Many highly secure documents are produced using technologies such as flexographic or gravure printing where set-up can be expensive and shorter to mid-sized runs can be cost prohibitive. Now, with the new Toray IMPRIMA ™ SD super high resolution waterless printing plate, security documents can be printed using the much more cost-effective offset printing methodology commonly used to produce high quality commercial printing.

Implementing Toray Waterless Offset Printing

In addition to the special electronic prepress systems typically required for security image design and production purposes, which can vary based on the application being produced, there are only a few basic requirements for successfully implementing IMPRIMA™ SD super high resolution waterless printing:

- **MODERN OFFSET PRESS WITH TEMPERATURE CONTROL SYSTEM**
- **TORAY WATERLESS PLATE PROCESSOR**
- **HIGH RESOLUTION THERMAL CTP**
- **CERTIFIED BY MAJOR CTP MANUFACTURES**

Toray's technical representatives stand ready to lend their expertise to printers interested in using waterless offset printing to expand the range of applications they produce while reducing their environmental footprint.



Waterless processors by Heights TWP 680/1250

Toray waterless plate processors lead the way in quality processing dedicated to Toray waterless plates. The TWP 680/1250 have been designed specifically to provide the optimum plate processing for consistent, reliable, high quality results, plate after plate.

- Heavy duty construction.
- Fully compatible with Toray Waterless Plates.
- Fully automated operation.
- Plate setter interfaces for major manufacturers.
- Ease of cleaning and maintenance.
- Can be connected to water recirculation units.
- Optional accessories:
    - On-line water recirculator
    - On-line chiller unit
    - Plate handling equipment

HEIGHTS (UK) LTD. has a policy of communal improvement for all its products and reserves the right to change specifications and functionality without notice.

For further information please contact:
TTCE s.r.o. – IMPRIMA Graphics Division

Prumyslova 4235/4
796 01 Prostejov
Czech Republic
Tel.: +420 (582) 30 38 08

Fax.: +420 (582) 30 32 91
E-Mail: imprima@ttce.toray.cz

www.imprima.toray