

## InstaCure Digital Technical Data Sheet

InstaCure Digital is a semi flexible, 100% solids UV curable clear coat specially formulated for use on toner based inks and other ink technologies printed to non-absorbent (coated) papers requiring protection from handling after printing. The unique benefit of this coating is its super low viscosity and excellent flow out over most digitally printed color press work. InstaCure Digital is available in Gloss and Matt (ICUVDG and ICUVDM).

### Typical Applications

Typical applications include coating of digitally printed toner based prints on a variety of coated paper and card stocks. Additionally, InstaCure Photo allows for artists signing of coated prints with typical oil based artist pens.

InstaCure Digital comes pre-mixed and is intended for use **undiluted** in reverse roll coaters with a smooth applicator roll.

InstaCure Digital is not compatible with most polymerized low temperature toners such as EA or Simitri inks.

### Recommended Substrates

- Photographic paper (Kodak, Fuji) E, F and N
- Metallic Photographic RA4 Papers (Kodak)
- Coated paper stocks
- Coated Card stock
- PSV (Cast and Calendared)

### Recommended Printer/Ink Systems:

- Traditional Silver Halide Photo Printing
- Traditional Printing Press Ink Systems such as Heidelberg, Komori, Mitsubishi and Ryobi
- Xerox 242, 252, 5000 and 8000 series
- Xerox iGen III
- HP Indigo Digital Press

### Performance Properties

- Excellent intercoat adhesion (layer to layer)
- Superb water and moisture resistance
- Excellent resistance to aromatic cleaners (see list of recommended cleaners)
- Excellent mar and scratch resistance after full cure
- Excellent slip on coated sheets
- Can be perforated or machine creased in line

### Coating & Equipment Compatibility

DocuMate	PhotoMate	Multi Pro	XL
Y	Y	N	N

### Coating Instructions:

While this coating is supplied in coater ready condition it should be mixed well prior to use each time. Adjust flow rate so that approximately 1/2-inch of bead forms between rolls.

Optimal temperature for this coating is 65-90°F (18-32°C). At lower temperatures the coating will have heavier viscosity and will not flow properly. Allow at least a 10 -- 15 minute warm up period (with coating flowing) prior to use.

**For use on PhotoMate or DocuMate UV Coaters:** Set pinch lever to a setting of "0" +/- 1. For high gloss look, run at faster speeds using a thinner coat. If equipped with IR, turn IR off or on low at most.

**Not recommended for use on MultiPro or XL**

### Curing Properties

When properly cured, final film properties (scratch and chemical resistance) are available immediately after polymerization with exposure to UV between 120 - 140mjs/cm.

If a loss of gloss or adhesion due to insufficient cure is noticed, slow down the curing unit, or increase the lamp power and speed, not to exceed 80 feet (24 meters) per minute.

### Typical Coverage

5,200-6,000 square feet (483-557 square meters) per gallon based on lay down between 6 - 8 microns\* dependant on substrate and absorption conditions.

### Light Fastness

UV curable clear coatings do not typically contain additional UV absorbers and have only limited Hindered Amine Light Stabilizers (HALS) and are not intended to significantly extend the color or light fade characteristics of a particular ink type.

We recommend that you contact the ink manufacturer to obtain base durability information and conditions affecting the long term durability for the inks you are using.

Use of this product will help protect the ink from exposure to many elements that tend to degrade inks faster, such as water, moisture, air and dust contaminants, abrasion and scratching. We strongly recommend a preliminary test of printing and curing on the substrates intended for use, in order to ascertain exactly the procedure, the working times and the obtained effect.

### Storage

Care should be taken to store the coating in tightly closed containers located in a cool, dark place (60-80°F/15-27°C). With suitable conditions, unopened coating is expected to have a shelf life of approximately 12 months from date of manufacture.

### Clean Up

**Use of a good quality alcohol is required when using this range of product.** Turn off pump off and bring rollers together. Engage scraper and run until coating roller appears dull and the pinch roller is clean (approximately 3 - 5 minutes). Turn pump off and separate rollers.

Please consult Drytac Technical Service for further information **1-800-280-6013**

**NOT ALL COATERS ARE EQUIPPED TO HANDLE COLORED OR NON STANDARD COATINGS. CONSULT YOUR COATER MANUFACTURER PRIOR TO USING ANY COLORED CURABLE COATING.**

We strongly recommend a preliminary test of printing and curing on the substrates intended for use, in order to ascertain the exact procedure, the working times and the obtained affect. Follow the indications on the package, ask for the safety data sheets and always follow the indications contained therein.

### IMPORTANT

Only the correct use of the product will allow satisfactory results. For this reason, Drytac is not responsible for the improper use of the product, either by application or substrate applied to. Make certain that the product is right for the desired use and works according to the instructions given in our technical data sheets. If in doubt of the appropriate application methods or use, contact Drytac at one of the phone numbers listed below.

*\*Note: 25 microns equal 1 mil*

### Gloss Levels:

- ICUVDG = 92 -- 96 units gloss at 60°
- ICUVDM = 45 -- 50 units gloss at 60°

### Recommended Cleaners for use on Digital Coated Graphics: (only after 24 hour cure time)

Soap & Water	De-Solv-It	Formula 409
Turpentine	Mineral Sprits	Fantastic
WD 40	MEK*	99% IPA
Goof Off	Acetone *	

\* Prolonged contact may soften coating

\*\* Not recommended

### Precautions

Read the material safety data sheet prior to processing. It contains instructions for precautions when handling clear coats. If clear coat comes in contact with skin, wipe clear coat off with a clean, dry cloth (do not use solvent). Wash and rinse the affected area with soap and water.

**Availability:** InstaCure Digital is available in a Gloss, Satin Matte (ICUVDG & ICUVDM).