

InstaCure POP Technical Data Sheet

InstaCure POP is an inexpensive semi flexible, 100% solids UV curable clear coat specially formulated for use on a variety of substrates intended for use in point of purchase applications where cost is a factor. InstaCure POP can be used over a variety of ink technologies, including traditional screen and digital inks and toners. ICUVPOP features anti graffiti characteristics and is highly resistant to harsh cleaners. Its low viscosity makes it ideal for use in both traditional and micro based UV curing systems. InstaCure POP is available in Gloss only (ICUVPOP) and has a gloss rating of 96 units @ 60° on a Leneta card.

Typical Applications

Typical applications include coating of printed rigid substrates with smooth surfaces such as coated card stock coroplast, styrene, PSV, SAV, silver halide photo papers and more.. InstaCure POP is typically used in applications requiring anti graffiti surfaces due to its tightly networked cell structure and high resistance to chemical exposure.

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

Recommended Substrates

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

Recommended Printer/Ink Systems:

- Traditional Silver Halide Photo Printing
- Traditional Eco Solvent based Inks
- Traditional Solvent based inks
- Traditional Screen Print Ink Systems
- Digitally printed UV curable ink systems
- HP Latex Inks/Prints

Performance Properties

- Superb water and moisture resistance
- Excellent chemical resistance
- Ultra smooth laydown characteristics
- Excellent mar and scratch resistance after full cure

Coating & Equipment Compatibility

DocuMate	PhotoMate	Multi Pro	XL
Y	Y	Y	Y

Coating Instructions:

While this coating is supplied in coater ready condition it should be mixed well prior to use each and every time. Adjust flow rate so that approximately ½-inch of bead forms between rolls.

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.

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

For use in VersaCoater XL

The coating will cure well when applied at between 6 and 8 microns* per pass, at curing speeds of up to 80 linear feet (21 meters) per minute.

Following settings are recommended starting points. Generally speaking, lower viscosity coatings should be run with a slightly higher top to bottom roller speed ratio

Not intended for use on absorbent substrates,

Starting Point	Top Roll	Bottom Roll	Pinch Pressure	Cu Lamp	Cu Speed
POP	60	50	35 psi	150	60

Curing Properties

When properly cured, final film properties (scratch and chemical resistance) are available immediately after polymerization with exposure to UV at 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 to 6,000 square feet (483-557 square meters) per gallon based on lay down of between 6 - 8 microns* dependant on substrate and absorption conditions.

Light Fastness

UV curable clear coatings do not typically contain UV absorbers and have only limited Hindered Amine Light Stabilizers (HALS) and as such 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, chemical, 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 (60-90°F/15-32°C) dark place. With suitable conditions, unopened coating is expected to have a shelf life of approximately twelve (12) months from date of manufacture, (6) months from date of opening.

Clean Up

Use of a good quality alcohol is required when using this range of product. Turn off pump (or switch to wash if equipped with auto valve) and bring rollers together. Engage scraper and run until coating roller appears dull and the pinch roller clean (approx 5 to 7 minutes). Turn pump off and separate rollers.

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

Recommended Cleaners for use on coated graphics: (only after 24 hr cure time)

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

*** 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.

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

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 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 THIS product is right for the desired use. 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*