

EnduraCoat Photo Technical Data Sheet

EnduraCoat Photo is a flexible, low VOC acrylic aqueous clear coat specially formulated for use on processed photographic and other non-absorbent papers requiring unique handling after coating by technicians, art departments and artists alike. It can be sprayed, rolled or applied through a conventional reverse roll coater. The addition of UVA absorbers and hindered amine light stabilizers (HALS) ensures that the prints you coat will be protected from harsh UV radiation typically known to degrade color in prints. EnduraCoat Photo is available in Gloss, Luster and Matte (ECWBPG, ECWBPL and ECWBPM)

Typical Applications

Typical applications include coating of printed silver halide photo and inkjet photo papers, coated/water resistant canvas.

Prints may be sanded to remove blemishes (dust/lint) with a 600-grit wet sandpaper and recoated after sanding without picking up a noticeable gloss differential. Additionally, EnduraCoat Photo allows for artists signing of coated prints with typical oil based artist pens.

EnduraCoat Photo comes pre-mixed at a viscosity between 40 and 45 seconds in a #2 Zahn. Depending on the application method used, **dilution may be required.** This product may be sprayed, rolled or applied through a conventional reverse roll coater such as the Accutech.

EnduraCoat Photo is compatible with most reverse roll coaters such as the Accutech Accu Series water based coaters.

Recommended Substrates

- Photographic paper (Kodak, Fuji) E, F and N
- Metallic Photographic RA4 Papers (Kodak)
- PSV (Cast and Calendered & Flex)
- Water Resistant Canvas

Recommended Printer/Ink Systems:

- Traditional Silver Halide Photo Printing
- Traditional Eco Solvent based Inks
- Digitally printed UV curable ink systems
- Epson UltraChrome Inks
- HP Latex Inks/Prints

Performance Properties

- Excellent intercoat adhesion (layer to layer)
- Superb water and moisture resistance
- Excellent resistance to aromatic cleaners (see list of recommended cleaners)
- Printable and embossable

- Can be coated, sanded and recoated without sufficient gloss differential between coatings
- Compatible with heat/pressure mount systems used in making photo albums
- Signable with artist pens
- Excellent Slip, reducing print raps on roll coaters
- Excellent mar and scratch resistance after full cure

Coating & Equipment Compatibility

(Dilute with distilled water only)

Instructions for Use:

While this coating is supplied in coater ready condition it

Viscosity Target	Accutech 18xe/40/70	HVLP gun	Roller
Using #2 Zahn	30 to 40	25 - 30	undiluted

should be mixed well prior to use each time.

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 to 15 minute warm up period (with coating flowing) prior to use.

If coating freezes, allow to warm to room temperature before use. Alternatively, the container may be placed in warm bath of 80°F / 27°C for 30 minutes and then mixed thoroughly with drill and paddle or spindle paint mixer until clumps dissolve.

For use on Automated Roll Coaters: Set pinch lever to a setting of "0" +/- 1. For high gloss look, a second pass may be needed.

For use in HVLP Sprayers: Thin to proper viscosity and filter prior to adding to tank. Start out with a pressure of 50 psi and adjust fan so an even mist is produced that is heavy enough to stick to the print, but not run. Practice using broad sweeping (horizontal) strokes, overlapping slightly. Be sure to wear protective eye wear and an appropriate respirator.

For use with brush, roller or wax applicator: Use undiluted, with a wax applicator or semi hard brayer For

best results, coat using an M pattern, overlapping slightly. On larger surfaces, a figure 8 may work better. Additional hand apply information is available on our website www.drytac.com/downloads

Curing Properties

When fully cured, final film properties (scratch and chemical resistance) are available 24 to 48 hours after polymerization.

Cure Times	Roll Coater	HVLP gun	Roller
before stacking	20-30min	45-60min	45-60min

Typical Coverage

Approximate Coverage Rates	Roll Coater	HVLP gun	Roller
Per Gal/3.785L	2000 sq/ft	400 sq/ft	460sq/ft

Light Fastness

High quality UV absorbers and HALS have been added to this product. While we are confident the use of this coating will extend print life, 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.

Storage

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

IMPORTANT MESSAGE

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.

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 the substrate applied to or application. 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

Clean Up

Use clean hot water with a solution of 5 to 10% IPA to clean lines, rollers, tank, etc off coating. Do not let coating dry on painted surfaces.

On roll coaters, bring rollers together. Engage scraper and run until coating roller appears dull and the pinch roller clean (approximately 5 to 7 minutes). Turn pump off and separate rollers.

Please consult Drytac Technical Service for further information [1-800-280-6013](tel:1-800-280-6013)

Recommended Cleaners for use on coated graphics: (only after 48 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: EnduraCoat Photo is available in a Gloss, Luster and Satin Matte (ECWBPG, ECWBPL & ECWBPM).