



UVEXS Incorporated

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The brightest ideas in UV curing

404 SERIES

UV Curable Pad Print Clear Coatings

DESCRIPTION

The 404 Series coatings are intended for overprint coating applications requiring excellent abrasion resistant characteristics. The coatings are formulated for application with standard pad printing systems, either open or closed well style. The coatings cure rapidly under high intensity UV energy. The cure coating has excellent adhesion to ABS, vinyl and polycarbonate, and is available in gloss or matte finish versions.

Applications for the coatings include computer keyboards, cellular products, pagers, remote controls, and other consumer electronic products. These products may be used in conjunction with UVEXS 304 Series pad printing inks.

PRODUCTS

Clear, gloss	404A
Clear, matte	404B
Clear, diluting *	404C

* For use with 304 Series UV pad print inks for mixing to reduce pigment density on multi-hit applications.

ADDITIVES

Thinner	740B
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Available in metal pint or gallon containers, and is a flammable liquid.

CURE SCHEDULE

Expose to a medium pressure mercury vapor lamp operating at a minimum of 200 watts per inch input power, with intensities as specified:

Minimum dose ¹ :	0.4 joules/cm ² @ UV-A.
Minimum intensity ² :	200 mW/cm ² @ 365nm.
Cure time:	Under 5 seconds.

1. Using EIT radiometer series, UV-A range.
2. Using UVEXS PM 600 radiometers.

APPLICATION

The coatings may be used in open and closed cup printers. A thinner is available for modifying the viscosity as required on the user's particular printer.

The coating may be used with all cliché types and depths, recommended 24 micron.

A special version of the clear coat is available for use as a diluting additive for the UVEXS 304 series UV curable pad print inks.

PROPERTIES

Base resin	modified acrylate
Solids	20%, typical
Components	one, with thinner added
Viscosity	8000 - 10,000 cps
Flash point	n/a
Color	clear, gloss or matte
Abrasion	

STORAGE AND HANDLING

Closed containers may be stored in darkness at 50-80°F (10-20°C), using a cabinet recommended for flammable materials. Avoid contact with skin and eyes as directed on the MSDS. Use only with adequate ventilation to remove vapors from the user.

PACKAGING

The 404 Series clear coatings are available in plastic jars and pails, and are sealed for leak free transit. Available containers include:

1 quart jar, 1 gallon pail, 5 gallon pail