

# Uniprint UP

## Multi-purpose point of purchase UV ink.

**Uniprint UP** is a high performance UV curable screen printing ink specifically formulated for a wide variety of substrates used in point of purchase applications. The unique versatility of Uniprint provides printers a single ink system in inventory for multiple uses. Uniprint UP offers superior opacity and high gloss while maintaining rapid cure rates. Uniprint UP provides a durable, non-blocking surface and demonstrates excellent outdoor durability.

## PERFORMANCE PROPERTIES

- Suitable for exterior exposure to three (3) years on premium vinyl
- Outstanding adhesion to a wide variety of substrates
- Superior opacity provides better color trapping
- Non-blocking, low tack finish for easy handling
- Superb water and abrasion resistance
- Flexible for multi-layer applications and die-cutting
- N-VP and heavy metal free

## RECOMMENDED SUBSTRATES

Uniprint UP exhibits excellent adhesion to pressure sensitive vinyl, top coated and print treated polyester, polystyrene, ABS, polycarbonate, rigid vinyl, coated and uncoated paper, card stock, polyethylene coated card stock, and some coated metals.

With the use of 3-5 % 1534 Adhesion Promoter, UP may adhere to high density polyethylene and fluted polypropylene (Coroplast®). For ultimate performance on these two materials, use Polymeric's Lazer LXII.

To determine suitability of the product for the intended use, a pretest prior to production is advised.

### A. Warranty Liability Limited to Purchase and Installation Costs

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MIX WELL BEFORE USE. Follow any indications on the package, ask for the safety data sheets and always follow the indications contained therein. In case of doubt, please contact our Technical Service department.

# Uniprint UP

## **CURING:**

Uniprint will cure well when printed through 355 (140 cm) plain weave polyester mesh or finer. UP's optimal cure window of 175 to 200 mJ is generally achieved with one 200 watt per inch mercury vapor lamp at belt speeds between 50-70 feet (15-20 meters) per minute. This should provide a thorough cure of the product including opaque colors.

Adhesion should be a minimum of 95% from curing unit with final adhesion developing within four hours of initial polymerization. Coarser fabrics can be utilized; however, cure parameters may need to be adjusted for the increased ink film.

If a loss of gloss or adhesion due to insufficient cure is noticed, the use of 5 - 10% UP Mixing Clear will increase light penetration and improve cure.

## **PRINTING:**

Mix well prior to every use. Although UP has been supplied in press ready condition, this system may be reduced up to 10% with UP Thinner for special viscosity adjustments.

Care should be taken to print the ink at the optimal temperature of 70°-90°F (21°- 27°C). Cool ink will have heavier viscosity and will not flow properly whereas excessively warm ink will be lower in viscosity resulting in poor definition and decreased opacity.

## **SQUEEGEE:**

A 70 - 90 durometer polyurethane blade is recommended.

## **COVERAGE:**

3200 to 3600 square feet per gallon for film deposit of .40 to .60 mil.

## **OUTDOOR USE:**

Extensive accelerated weathering tests have been completed on vinyl printed with Uniprint. The ink withstood 1500 hours of exposure with 4 hour cycle times of UV light and condensation at elevated temperatures with minimal color change and marginal shrinkage.

Accelerated machine weathering are reference standards and can't precisely reproduce actual outdoor performance. Based on prior correlation of accelerated testing versus real time exposure, 500 hours is equated to approximately one year, 45° south Florida.

The use of premium grade, long-term vinyl films is recommended for all applications intended to weather up to three years.

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**METALLICS:**

A superior two part system comprised of UP Metallic Mixing Clear and the proper metallic paste has been developed. The increased viscosity of MMC helps insure a good particle suspension and our new metallic technology provides unparalleled premix shelf life and stability. The recommended mixing ratios are: 12% silver paste, 28% gold paste (by weight) to achieve the standard metallic colors.

For optimum coverage and opacity, 280 - 305 (110 - 120 cm) plain weave monofilament mesh is recommended. Use UP Overprint Clear for extended weatherability and to improve the non-tarnishing properties of the product.

**STORAGE:**

Care should be taken to store ink in tightly closed containers located in a cool (60°F to 80°F / 15° to 27°C), dark place. After long production runs excess ink from the screen should be properly disposed. With suitable conditions, the ink is expected to have a shelf life of approximately 12 months from the date of manufacture.

**PRECAUTIONS:**

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

**PROCESS PRINTING:**

For superior halftone reproduction, Uniprint New Rheology halftones are available in three density levels. Additional control of densities may be achieved with the use of UP Halftone Extender Base. For best results, 355 (140 cm) plain weave mesh or finer and a smooth, thin stencil coating should be utilized with four color process printing.

	PRESS READY	HIGH DENSITY	BACKLIT DENSITY
UP Halftone Yellow	.90	1.10	1.35
UP Halftone Magenta	1.40	1.75	2.05
UP Halftone Cyan	1.40	1.80	2.20
UP Halftone Black	1.60	2.00	2.25
UP Halftone Extender Base			

*Effective 05/15/00*

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**COLOR****AVAILABILITY:**

Uniprint UP is available in twenty opaque standard colors. Custom matches, metallic, fluorescent and transparent colors are obtainable upon request.

UP-101	Primrose Yellow	UP-210	Ultra Blue
UP-111	Lemon Yellow	UP-220	Emerald Green
UP-123	Medium Yellow	UP-225	Forest Green
UP-131	Brilliant Orange	UP-226	Lime Green
UP-135	Vivid Orange	UP-235	Teal
UP-141	Fire Red	UP-240	Purple
UP-151	Scarlet Red	UP-260	Brown
UP-155	Rubine Red	UP-301	Opaque Black
UP-160	Rhodamine Red	UP-311	Opaque White
UP-180	Warm Red	UP-312	Dense Black
UP-190	Process Blue	UP-026	Brilliant White
UP-200	Peacock Blue	UP	Overprint Clear
UP-205	Reflex Blue	UP	Metallic Mixing Clear

**PANTONE  
MATCHING  
SYSTEM®  
COLORS:**

The nine PANTONE® approved Color Matching System shades are used to simulate the PANTONE Color Specifier 1000 colors. Formulas were designed for maximum opacity and are available in book or Imaging Color Source software format.

UP-064	CMS GS Yellow
UP-066	CMS RS Yellow
UP-114	CMS Orange
UP-121	CMS YS Red
UP-164	CMS BS Red
UP-165	CMS Magenta
UP-127	CMS Violet
UP-230	CMS Blue
UP-325	CMS Green
UP	Tinting White
UP	Shading Black
UP	Mixing Clear

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