PRODUCT INFORMATION BULLETIN

# UPLC LOW BLEED COLORS

UNION INK™ LOW CURE

Union Ink™ UPLC LB colors are polyester low bleed plastisol screen printing inks with excellent opacity and adhesion for 100% polyester athletic uniforms. UPLC LB colors have a flexible cure profile that can cure as low as 250°F (121°C) with recommended paramters. These inks replace Union Ink ATHP colors.

## Highlights

- Excellent bleed resistance at a wide temperature range 250 °F-300 °F (121°C -149°C)
- Shears down quickly to a creamy, smooth body
- Soft hand and excellent stretch
- Wide color palette of Union Ink standard colors
- Superior opacity on dark fabrics
- Works well on manual or automatic presses

## Compliance

- Non-phthalate
- Internationally compliant
- Visit https://www.avientspecialtyinks.com/services/compliance-support

## Sustainability

**Reduced Energy Use**

## Precautions

- The information provided in this document is given in good faith and does not release you from testing inks and fabrics to confirm suitability of substrate and application process to meet your customer standards and specifications

## Printing Tips

- For best results, use a print-flash-print technique to ensure sufficient ink deposit on dark fabrics.
- For challenging polyester fabrics, use Union Ink UPLC1555 LB Sport Victory Barrier Grey as a base layer to achieve maximum bleed resistance.
- Adjust flash cure temperature and dwell time so ink is dry to the touch. Avoid excessive flash temperatures to protect fabric and migration of dyes. Depending on flash unit, a 3-5 second flash is adequate.
- A behavior for high-opacity low cure inks is to "body-up" or gain viscosity when at rest. Be sure to "pre-shear" or agitate this ink before use to achieve optimal flow before printing. Do not use high-speed drills or similar equipment that will create friction-heat that can cause the ink to begin to cure. To reduce pre-shear time, do not store ink buckets on cold floors.
- Adjust your print parameters to allow this ink to clear fully on the second stroke using medium to low pressure for best dye blocking and opacity. As this ink shears down, less pressure will be required. Adjust accordingly.
- Curing is a time and temperature process. Use a low temperature and low belt speed to achieve the best results without causing damage to the fabric.
- Avoid "hot stacking" printed poly garments coming off the dryer belt. This will help stabilize the shirt pigment.

## Recommended Parameters

### Fabric Types
Poly blends, 100% Polyester

### Flash & Cure
°F °C
Flash: 140°F (60°C)
Cure: 250°F-300°F (121°C -149°C)

### Clean Up
Non-phthalate press wash

### Mesh
Count: 86- 230t/in (34 -90t/cm)
Tension: 18-35n/cm3

### Pigment Loading
N/A

### Health & Safety
Find safety information here:
www.avient.com/resources/safety-data-sheets
or contact your local CSR

### Squeegee
Durometer: Medium: 60-70, 60/90/60
Profile: sharp, square
Stroke: 2 stroke, medium speed
Angle: 10°-20°

### Additives
K2912 VISCOSITY BUSTER LC
K2940 HUGGER CATALYST

### Stencil
Standard Emulsion
Off Contact: 1/16" (2mm)
Emulsion Over Mesh: 15-20%

### Storage
65°-90° F (18°-32° C)
Avoid direct sunlight.
Use within one year of receipt.
Keep container well sealed.

AVIENT™ AVIENT SPECIALTY INKS

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