


UPLC LOW BLEED COLORS

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 parameters. 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

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.

Compliance

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

Sustainability

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

Recommended Parameters

 Fabric Types Poly blends, 100% Polyester	 Flash & Cure 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	2025, Avient Corporation. Avient makes no representations, guarantees, or warranties of any kind with respect to the information contained in this document about its accuracy, suitability for particular applications, or the results obtained or obtainable using the information. Some of the information arises from laboratory work with small-scale equipment which may not provide a reliable indication of performance or properties obtained or obtainable on larger-scale equipment. Values reported as "typical" or stated without a range do not state minimum or maximum properties; consult your sales representative for property ranges and min/max specifications. Processing conditions can cause material properties to shift from the values stated in the information. Avient makes no warranties or guarantees respecting suitability of either Avient's products or the information for your process or end-use application. You have the responsibility to conduct full-scale end-product performance testing to determine suitability in your application, and you assume all risk and liability arising from your use of the information and/or use or handling of any product. AVIENT MAKES NO WARRANTIES, EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, IMPLIED WARRANTIES OF MERCHANTABILITY AND FITNESS FOR A PARTICULAR PURPOSE, either with respect to the information or products reflected by the information. This literature shall NOT operate as permission, recommendation, or inducement to practice any patented invention without permission of the patent owner.
 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 SPECIALTY INKS	V4.00 (Modified: 03/21/2025)