

**TECHNICAL DATA SHEET**



**9500 SERIES AQUAPRINT II  
READY-FOR-USE (RFU) SCREEN INK**

**TECHNICAL INFORMATION AND APPLICATION INSTRUCTIONS**

**SUBSTRATES**      **Cotton, cotton/polyester blends, cotton/rayon blends, acetate, some 100% polyester and Lycra blends.**

**END USES**        **High fashion wearables, light-colored T-shirts, sweatshirts, and towels.**

**PRODUCT INFORMATION**

AquaPrint II 9500 Series is a water-dispersible, lead/heavy metal-free pigmented screen printing ink. These inks are ready for printing straight from the container and can be further extended, for pastel shades, with the use of AQ51 Prepared Extender Base. upon

**APPLICATION INFORMATION**

**MESH**              Use 60-156 mesh monofilament polyester. Avoid silk and nylon mesh as they are water sensitive.

**STENCIL**          Nazdasol X-Tra® or waterproof direct emulsion or capillary films. For hand cut stencils use lacquer or lacquer proof films.

**SQUEEGEE**      Square edge, 60-80 durometer blade.

**COVERAGE**     Approximately 800 sq. ft. per gallon using 110 mesh screen.

**PRINTING**        Use a soft platen, which is more forgiving for high opaque printing. This soft surface will not allow the printing pressure to force the ink through the textile. Instead, the platen compresses and keeps the ink on the surface of the garment.

**DRYING**           Once printed, 9500 Series must be heat set for 3 minutes at 300° F. Heat cure for 2.5 minutes at 320° F with good air flow in the oven. If necessary, the addition of AQ58 Aquacat may be used to achieve necessary fastness levels.

**CLEARs/  
EXTENDERS/  
ADDITIVES**

Ink can be extended with AQ51 Prepared Extender Base to desired pastel color. For metallic powders use 9540 Metallic Clear.

**AQ50 OPAQUE BASE:**

For high intensity opaque colors, AQ50 blended in a ratio of 85% AQ50 Opaque Base/15% AquaPrint II 8500 Super Pigment Concentrate, will give strong vibrant colors on dark ground substrates while still maintaining a soft hand. Available in quart and gallon containers.

**AQ51 PREPARED EXTENDER BASE:**

To be used with 8500 Super Pigment Concentrate to 95% maximum ratio of 5% can be added to our 9500 "ready for use" inks in instances when additional binders may be needed, such as with greater than normal pigment content. Available in quart, gallon, and 5 gallon containers.

**AQ53 THICKENER:**

A liquid that will increase the viscosity of prepared colors. Add at 0.5% increments to desired thickness. Available in quart and gallon containers.

**AQ54 AQUALUBE:**

A retardant gel that slows down the evaporation rate of water, and hence prevents drying in the screen. Add at levels of 5-10%, without fear of limiting pot life or jelling of the ink. Available in quart, gallon, and 5 gallon containers.

**AQ55 SOFTENER:**

A product that will impart a silky, soft feel to the print. Add at a level of 2-5% when printing terry towels. Available in quart, gallon, and 5 gallon containers.

**AQ56 PENETRANT:**

A product that simply aids penetration. Add to prepared inks at a level of 2-5%. It works extremely well on "difficult to print" cloth, such as looped and sheared terry cloth towels. Available in quart and gallon containers.

**AQ57 ANTIWICK:**

Used to prevent wicking on certain fabrics that may have surface treatments. Add at 0.5% increments up to a total maximum of 2%. Available in quart containers.

**AQ58 AQUACAT:**

This aziridine-free room temperature catalyst, when used at a level of 3-5%, enables air-dried prints to achieve necessary fastness levels. The curing process will only start to take place once the prints are actually dry, so to speed up operations, print may be conveyor dried at approximately 250° F.

The use of AQ58 Aquacat is ideally suited for print shops that may not have ovens with sufficient air flow in their heating chamber, or for those shops, who by increasing their belt speed, seek to increase production. Energy costs can be significantly reduced when using this product. The ink / catalyst mixture has a normal shelf life of 8 hours. Do not use the mixture after that period. Available in quart containers.

**8500 CLEAR CONCENTRATE:**

A basic clear concentrate for mixing with water and AQ52 low crock to provide the finished AQ51; and as such is used to regulate the viscosity of the system. High speed mixing equipment is required to use this product. Available in quart, gallon, and 5 gallon containers.

**CLEAN UP**

With water or water and detergent solutions; use soapy, ammoniated water.

**+COLOR AVAILABILITY**

All of the following colors are available in gallon containers. Those marked with an \* are also available in quart containers. Those marked with \*\* are available in quart, gallon, and 5 gallon containers.

Stock Number		Stock Number	
9512	RFU Blue 2G (also avail. in 5 gallon)	9551	RFU Red 2B*
9514	RFU Red YR**	9565	RFU A1351 Aquapaque White*
9516	RFU Violet 4B	9567	RFU Halftone Blue (also avail. In 5 gallon)
9517	RFU Scarlet LF	9568	RFU Halftone Yellow
9518	RFU Scarlet YDC*	9569	RFU Halftone Magenta
9519	RFU Orange R*	9571	RFU Mica Metallic Silver*
9520	RFU Blue R	9572	RFU Mica Metallic Gold*
9525	RFU White BR**	9573	RFU Mica Metallic Copper*
9526	RFU Fuchsia*	9590	RFU FL Magenta
9536	RFU Yellow 3RH	9591	RFU FL Yellow Orange
9540	RFU Meta-Glo Super KS	9592	RFU FL Green
9541	RFU Aquatique White	9594	RFU FL Lemon Yellow
9542	RFU Yellow 2G**	9595	RFU FL Red
9543	RFU Navy	9596	RFU FL Gold Yellow
9544	RFU Blue 3G*	9597	RFU FL Cerise
9546	RFU Black L**	9598	RFU FL Violet
9547	RFU Brown SR	9599	RFU FL Blue
		9560RFU	Aquapaque Clear Base

*Caution: It is the printer's responsibility to pretest the ink selected prior to engaging in a production run. Allow at least 24 hours after test printing to evaluate the suitability of the ink and its adhesion to the surface. Before using, the printer shall determine the suitability of the product for its intended use.*

+Based on information from our suppliers, these products are made from raw materials that contain less than 0.06% lead.