

AquaPrint II 9500 Series is a water-dispersible, lead/heavy metal-free pigmented screen printing ink. 9500 Series is designed to be press ready and can be further extended, for pastel shades, with the use of AQ51 Prepared Extender Base.

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

## USER INFORMATION

*While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. See full disclaimer at the end of the document.*

**MESH** 60-156 tpi (24-61 tpcm) monofilament polyester mesh for most applications

**STENCIL** Waterproof direct emulsion or capillary films. For hand cut stencils use lacquer or lacquer proof films.

**SQUEEGEE** 60-80 durometer polyurethane squeegee

**COVERAGE** 800 square feet (240 square meters) per gallon depending upon ink deposit

**PRINTING** The 9500 Series ink is formulated to be press ready. Add only enough ink to the screen to be able to print for 5-10 minutes. Add additional ink in small increments throughout the print run to maintain screen stability. Thoroughly mix the inks prior to printing.

Maintain ink temperatures at 65°-90° F (18°-32° C) for optimum print drying performance. Lower temperatures increase the ink viscosity, impairing both flow and drying. Elevated temperatures lower the ink viscosity, reducing print definition, film thickness and opacity.

Pretest to determine optimum printing performance for a particular set of ink, substrate, screen, press, and drying variables/conditions.

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/  
CURING** Once printed, 9500 Series must be heat set for 3 minutes at 300° F (149 °C). 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.

**CLEAR/  
EXTENDERS** 9500 Series inks can be extended with AQ51 Prepared Extender Base to desired pastel color. For metallic powders use 9540 Metallic Clear.

### ADDITIVES

All additives should be thoroughly mixed into the ink before each use. Prior to production, test any additive adjustment to the ink

*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.

*AQ53 Thickener:* A liquid that will increase the viscosity of prepared colors. Add at 0.5% increments to desired thickness.

*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% by weight, without fear of limiting pot life or jelling of the ink.

*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.

*AQ56 Penetrant:* A product that simply aids penetration. Add to prepared inks at a level of 2-5% by weight. It works extremely well on “difficult to print” cloth, such as looped and sheared terry cloth towels.

*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% by weight.

*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 (121 ° C).

The use of AQ58 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

*Screen Wash (Prior to Reclaim):* Use IMS401 Premium Textile Screen Wash

*Press Wash (On Press):* Use IMS503 Textile Press Wash

### STORAGE

Store tightly covered at temperatures between 65°-90°F (18°-32°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

## GENERAL INFORMATION

### INK HANDLING

All personnel mixing and handling these products must wear gloves and eye protection. Clean up spills immediately. If ink does come in contact with skin, wipe ink off with a clean, dry, absorbent cloth (do not use solvent or thinner). Wash the affected area with soap and water. Consult the 9500 Series Material Safety Data Sheet for further instructions and warnings.

### PACKAGING

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	Standard Printing Colors	Stock Number	Standard Printing Colors
9512	RFU Blue 2G (also avail. In 5 gallon)	9551	RFU Red 2B*
9514	RFU Red YR**	9565	RFU A 1351 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

**PACKAGING**

Additives are available in quart, gallon, and 5 gallon containers. Cleaners available in gallon, 5 gallon and 55 gallon containers

Stock Number	Additives	Stock Number	Clean Up
AQ51	Prepare Extender Base	IMS401	Premium Textile Screen Wash
AQ53	Thickener	IMS503	Textile Press Wash
AQ54	Aqualube		
AQ55	Softener		
AQ56	Penetrant		
AQ57	Antiwick		
AQ58	Aquacat (Available in quarts only)		

*Nazdar® stands behind the quality of this product. Nazdar® cannot, however, guarantee the finished results because Nazdar® exercises no control over individual operating conditions and production procedures. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Users are also responsible for testing to determine that our product will perform as expected during the printed item's entire life-cycle from printing, post-print processing, and shipment to end-use. This product has been specially formulated for screen printing, and it has not been tested for application by any other method. Any liability associated with the use of this product is limited to the value of the product purchased from Nazdar®.*

Based on information from our raw material suppliers, these products are formulated to contain less than 0.06% lead. If exact heavy metal content is required, independent lab analysis is recommended.

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