

AquaPrint II 8500 Series is a completely aqueous screen ink, formulated with lead-free and heavy metal-free ingredients. 8500 Series offers the brightest and deepest colors available for a wide range of textile substrates. These pigmented concentrates must be extended with AQ51 Prepared Extender Base prior to use.

Note: PANTONE® Matching System Available.

**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 8500 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, 8500 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

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

*Extender Base:* Use 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 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 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 8500 Series Material Safety Data Sheet for further instructions and warnings.



# 8500 SERIES AQUAPRINT II SUPER CONCENTRATE SCREEN INK

## TECHNICAL DATA SHEET

### 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
8512	Conc Blue 2G	8544	Conc Blue 3G
8514	Conc Red YR	8545	Conc Green B
8516	Conc Violet 4B	8546	Conc Black L**
8517	Conc Scarlet LF	8547	Conc Brown SR
8518	Conc Scarlet YDC	8551	Conc Red 2B
8519	Conc Orange R	8580	Conc Fluorescent Green
8520	Con Blue R	8581	Conc Fluorescent Yellow
8525	Conc White BR**	8585	Conc Fluorescent Red
8526	Conc Fuchsia	8586	Conc Fluorescent Pink
8536	Con Yellow 3RH	8588	Conc Fluorescent Blue
8542	Conc Yellow 2G*	8589	Conc Fluorescent Violet
8543	Conc Navy Blue*		

### 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 (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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