

Color Vue 8800 Series Screen Inks have been formulated specifically for automotive, membrane overlay and appliance decorating applications, where strong transparent colors with lens-like clarity and high opacity colors are required. The 8800 Series is compatible with most acrylic transfer adhesives.

Substrates

- Polycarbonate
- Some print-treated polyester

Substrate recommendations are based on commonly available materials intended for the ink's specific market when the inks are processed according to this technical data. 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. Reference the 'Quality Statement' at the end of this document.

User Information

Mesh

195-330 tpi (77-130 tpcm) monofilament polyester mesh for most applications.

Stencil

Use direct emulsions and capillary films which are solvent resistant.

Squeegee

70-80 durometer polyurethane squeegee.

Coverage

Estimated 1,200 – 1,800 square feet (112-167 square meters) per gallon depending upon ink deposit. Reference www.nazdar.com for examples of coverage calculations.

Printing

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 ink prior to printing. Improper mixing can lead to inconsistent color and ink performance.

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

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

Nazdar does not recommend inter-mixing of 8800 Series with other inks besides the 8800 Series and System 2 Series. Prints that would come into contact with adhesives should use at least 60% of 8800 Series when mixed with System 2 Series.

Drying / Curing Parameters

8800 Series dries by solvent evaporation and dries at temperatures of 130° - 150°F (54° - 66°C). Good air circulation is necessary to remove the vaporized solvents. Multiple layers of ink may require longer drying times than a single layer; flood coats will take longer to dry compared to fine copy.

Clears / Varnishes

Mixing Clear / Metallic Mixing Clear: Use 8826 Mixing Clear to reduce the density of colors or as a clear base for specialty additives such as Metallic additives.

Overprint Clear: Use 8827S Satin Overprint Clear for first surface printing to provide a low gloss finish.

Common Performance Additives

When required, any additives should be thoroughly mixed before each use. Prior to production, test any additive adjustment to the ink. Inks containing additives should not be mixed with other inks.

Example for additives: Ink at 100g with 8% of an additive is calculated as:

$$100\text{g ink} + 8\text{g additive} = 108\text{g total}$$

Reducer: Use RE180 Thinner to reduce the viscosity of these inks. Add up to 20% by weight.

Flattening Powders: Use 8848 Flattening Paste to produce a satin finish. Add up to 20% by weight.

Retarder: Use RE183 Retarder to slow the drying process and increase ink stability on the press.

Add up to 15% by weight. RE180 Thinner and RE183 Retarder may be added to the same ink.

Cleanup

Screen Wash (Prior to Reclaim): Use IMS201 Premium Graphic Screen Wash, IMS203 Economy Graphic Screen Wash, or IMS206 Graphic Auto Screen Wash.

Press Wash (On Press): Use IMS301 Premium Graphic Press Wash.

Storage

Store closed containers at temperatures between 65°-78°F (18°-25°C). Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink.

Processing

Die Cutting/Embossing/Adhesive Lamination: Make sure the ink is thoroughly dry prior to any post print processing.

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 applicable [Safety Data Sheet](#) (SDS / MSDS) for further instructions and warnings.

For assistance on a wide range of important regulatory issues, consult the following Regulatory Compliance Department link at <http://www.nazdar.com> or contact Nazdar Ink Technologies - World Headquarters (see contact listing at the end of this document).

Adhesion Testing

1. Touch of ink surface – the ink surface should be smooth.
2. Thumb twist – the ink surface should not mar or smudge.
3. Scratch surface – the ink surface should resist scratching.
4. Cross hatch tape test – per the ASTM D-3359 method, use a cross hatch tool or a sharp knife to cut through ink film only; then apply

3M #600 clear tape on cut area, rub down, and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

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Manufacturer's Product Offering

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

Standard Printing Colors

Standard Printing Colors have excellent opacity and flow characteristics.

Single Pigment Toners

The Transparent Colors are specially formulated for lens-like clarity and can be used in color matches, or let down with mixing clear.

Pantone Matching System® Base Colors

Pantone Matching System Base Colors are used to simulate the Pantone® Formulation Guide. These inks are press ready, can be used in matches to achieve Pantone color simulations, or let down with mixing clear. ColorStar® Color Management System software uses Pantone Matching System Base Colors to match Pantone colors. Blend formulations are also available at www.nazdar.com using ColorStar On-Line.

360 Series Colors: 88360-88369 colors are formulated to have no white or opaque pigments. This allows the colors to be more vibrant and allows for a better match of intense and darker colors.

Special Effect Pigments

When inks are to be printed with a special effect color, all ink layers must be evaluated for intercoat adhesion and suitability with adhesives before proceeding with the production run. Pigments may settle in the container; prior to printing, thoroughly mix the ink.

The following special effect pigments may be added to 8800 Series. Contact Nazdar for the item number(s) and availability of special effect products. Technical Data Sheets for each of the following special effect pigments can be found at www.nazdar.com.

Metallic Silver (aluminum): Add up to 8% by weight.

Metallic Gold (bronze): Add up to 15% by weight.

Chemical reactions in metallic inks may result in viscosity, color and printability changes over time; due to this, mix only enough metallic ink to be used the same day.

Pearlescent / Interference: Add up to 20% by weight.

Multi-Chromatic: Add up to 10% by weight.

Color Card Materials

The following is a list of available screen printed samples of the 8800 Series.

Conventional Color Card (CARD375): shows the Standard Printing Colors and Pantone Matching System Base Colors.

Special Effects Color Card (CARDSPL): shows various special effect pigments mixed with clear.

Packaging / Availability

Contact your Nazdar distributor for product availability and offering.

'LF' Item Numbers

Colors with an item number containing 'LF' indicate a lead-free alternative that replaced a lead containing color. All colors listed in this document are lead-free.

Standard Ink Items

Standard ink items listed below are inventoried in 1 kilogram and/or gallon containers.

| Item Number | Color |
|-------------|-----------------------|
| 88LF10 | Primrose Yellow |
| 88LF11 | Lemon Yellow |
| 88LF12 | Medium Yellow |
| 8819 | Fire Red |
| 8821 | Peacock Blue |
| 8822 | Ultra Blue |
| 8824 | Tinting Black |
| 8825 | White |
| 8826 | Mixing Clear |
| 8827S | Satin Overprint Clear |
| 8852 | Super Opaque Black |
| 8875 | Super Opaque White |
| 8879 | High Intensity Black |

Transparent Colors (1 kilogram only)

| Item Number | Color |
|-------------|-----------------------|
| 88PB10 | Trans Primrose Yellow |
| 88PB12 | Trans Medium Yellow |
| 88PB13 | Trans Green |
| 88PB18 | Trans Red (BS) |
| 88PB22 | Trans Blue |
| 88PB24 | Dead Front Black |
| 88PB60 | Ruby Red |

Single Pigment Toners

| Item Number | Color |
|-------------|-----------------|
| 8881 | Orange Toner |
| 8882 | Carmine Toner |
| 8883 | Magenta Toner |
| 8884 | Maroon Toner |
| 8886 | Blue Toner (GS) |
| 8888 | Violet Toner |

Non-Standard Ink Items

Non-Standard ink items listed below are special order, non-inventoried colors which may require additional lead time. These items are available in gallon containers.

Printing Colors

| Item Number | Color |
|-------------|------------------|
| 88LF13 | Emerald Green |
| 88LF20 | Brilliant Orange |

Pantone Matching System® Base Colors

| Item Number | Color |
|-------------|---------------|
| 88358 | Tinting White |
| 88359 | Tinting Black |
| 88360 | Orange |
| 88361 | Yellow |
| 88362 | Warm Red |
| 88363 | Rubine Red |
| 88364 | Rhodamine Red |
| 88365 | Purple |
| 88366 | Violet |
| 88367 | Reflex Blue |
| 88368 | Process Blue |
| 88369 | Green |

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Solvent-Based Screen Ink

Additives / Reducers

| Item Number | Color |
|--------------|------------------|
| 8848 | Flattening Paste |
| RE180 | Thinner |
| RE183 | Retarder |

Cleaners / Clean Up

| Item Number | Color |
|---------------|-----------------------------|
| IMS201 | Premium Graphic Screen Wash |
| IMS203 | Economy Graphic Screen Wash |
| IMS206 | Graphic Auto Screen Wash |
| IMS301 | Premium Graphic Press Wash |

Nazdar Quality Statement

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®.

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