

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 and some print-treated polyester

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 200 - 330 threads per inch (77 – 130 centimeters per inch) monofilament polyester mesh for most applications

STENCIL Solvent resistant direct emulsions and capillary films

SQUEEGEE 70 to 80 durometer polyurethane squeegee

COVERAGE 1200 - 1800 square feet (112 – 167 square meters) per gallon depending upon ink deposit

PRINTING Thoroughly mix the inks prior to 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.

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.

DRYING 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.

CLEAR / 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 metallics.

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

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

Reducer: Use RE180 Thinner to reduce the viscosity. 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.

CLEAN UP

Screen Wash (Prior to Reclaim): Use IMS201 Premium Graphic Screen Wash.
Press Wash (On Press): Use IMS301 Premium Graphic 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.

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 8800 Series Material Safety Data Sheet for further instructions and warnings.

ADHESION TESTING

1. Touch of ink surface – the ink will be smooth and slick.
2. Thumb twist – the ink surface will not mar or smudge.
3. Scratch surface – the ink will resist scratching.
4. Cross hatch tape test – 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, wait for 1 minute and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

PRODUCT OFFERING

STANDARD PRINTING COLORS

The Standard Printing Colors have excellent opacity and flow characteristics.

SINGLE PIGMENT TONERS

The Single Pigment Toners can be used in color matches, or let down with mixing clear.

TRANSPARENT COLORS

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

SPECIAL ADDITIVES

When inks are to be printed over a special effect color, the overprinting ink(s) must be evaluated for intercoat adhesion before proceeding with the production run. To maximize intercoat adhesion, specialty colors should be printed as late as possible in the print sequence.

The following special effect pigments may be added to the 8800 Series inks. These pigments are available in 1-pound containers. Contact Nazdar for the item number(s) and availability of each special effect product. Pigments may settle in the container prior to printing, thoroughly mix the ink.

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

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

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

Pearlescents / Interference Pigments: add up to 20% by weight.

Multi-Chromatic Pigments: add up to 10% by weight.

See the Pearlescent, Interference, and Multi-Chromatic Technical Data Sheets for more information.

Phosphorescents: Add up to 20% by weight.

Fluorescents: Add up to 25% by weight. Fluorescent colors fade quickly with exposure to ultraviolet light.

COLOR CARD MATERIALS

The following is a list of screen printed samples available.

Conventional Color Card: shows the Standard Printing Colors and Single Pigment Toners.

Special Effects Color Card: shows Metallic, Pearlescent, Interference, and Multi-Chromatic effects mixed with clear.

PACKAGING

All items listed below are available in kilogram and/or gallon containers.

'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.

| Stock Number | Standard Printing Colors | Stock Number | Standard Printing Colors |
|--------------|--------------------------|--------------|--------------------------|
| 88LF10 | Primrose Yellow | 8822 | Ultra Blue |
| 88LF11 | Lemon Yellow | 8824 | Tinting Black |
| 88LF12 | Medium Yellow | 8825 | White |
| 88LF13 | Emerald Green | 8826 | Mixing Clear |
| 8819 | Fire Red | 8827S | Satin Overprint Clear |
| 88LF20 | Brilliant Orange | 8852 | Super Opaque Black |
| 8821 | Peacock Blue | 8875 | Super Opaque White |
| | | 8879 | High Intensity Black |



8800 SERIES COLOR VUE MEMBRANE SCREEN INK

TECHNICAL DATA SHEET

| Stock Number | Single Pigment Toners | Stock Number | Transparent Colors |
|--------------|-----------------------|--------------|-----------------------|
| 8881 | Orange Toner | 88PB10 | Trans Primrose Yellow |
| 8882 | Carmine Toner | 88PB12 | Trans Medium Yellow |
| 8883 | Magenta Toner | 88PB13 | Trans Green |
| 8884 | Maroon Toner | 88PB18 | Trans Red BS |
| 8886 | Blue Toner (GS) | 88PB22 | Trans Blue |
| 8888 | Violet Toner | 88PB24 | Dead Front Black |
| | | 88PB60 | Ruby Red |

PACKAGING

Additives/Reducers are available in liters and/or gallon containers.
Cleaners are available in 1-gallon, 5-gallon and 55-gallon containers.

| Stock Number | Additives/Reducers | Stock Number | Clean Up |
|--------------|--------------------|--------------|-----------------------------|
| 8848 | Flatting Paste | IMS201 | Premium Graphic Screen Wash |
| RE180 | Thinner | IMS301 | Premium Graphic Press Wash |
| RE183 | Retarder | | |

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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