NAZDAR®
Ink Technologies

Screen Printing Inks

An *Ink* That's Right For Every Job.

NAZDAR®
Ink Technologies

POWERPRINT BANNER 1900 Series
1600 Series
00 Series

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Screen Printing Inks Information Guide   Version 3.6

91 Years of Inks & Coatings Innovation
Focused on Your Digital Inkjet, Screen Printing and Flexographic Ink Needs

The Nazdar® company manufacturers the most comprehensive selection of UV, water-base and solvent-based screen printing inks, flexographic inks, and wide-format digital inks obtainable from a single source. Nazdar® inks are primarily used by printers in the Point of Purchase (POP), Banner, Container, Industrial, Metal, Nameplate / Membrane Switch, Roll Label, Sign, and Textile decorating markets. Nazdar® digital printing inks can be used in a wide selection of digital inkjet printing presses like VUTEk™, NUR™, Scitex™, Mutoh™, Océ™, Mimaki™ and Gandi™, Hewlett-Packard, Epson®, Roland™, Agfa™, Teckwin™ and other notable wide-format digital printers. Whether printing indoor or outdoor applications on paper, plastics, textiles, metal, glass, or containers and packaging, there's a Nazdar® ink that's right for every job.

Nazdar accepts responsibility as a corporate citizen and acknowledges our obligation to help improve the quality of the environment, society, and community of which we are a part. We are committed to formulate all our products with environmental advantages in mind, including more energy efficient UV curing inks that are V-Pyrol® free and heavy metal free solvent based inks designed to have lower VOCs and easy reclamation. Nazdar also provides extensive regulatory compliance training to industry associations and printers. Nazdar® Shawnee's QMS have received ISO 9001:2008 certification.

www.Nazdar.com

The continuing evolution of communications technology has brought faster access to product information, service and support for on-line users everywhere, including the screen printing industry. Nazdar was one of the first screen printing ink manufacturers to have a presence on the World Wide Web and continues to remain at the forefront of on-line services by offering a wealth of information and educational interactive opportunities to our web site's visitors.

The Nazdar On-Line web site is a screen printer's gateway to the latest news and technical information concerning Nazdar's products and services. It's also the best way to keep up with what's happening locally by visiting the special Nazdar branch location web sites within Nazdar On-Line. That's just the beginning. Nazdar On-Line also provides dates and locations for national and regional trade shows and educational seminars, and links to other important on-line screen printing resources. Nazdar on-Line provides an area where screen printers can download valuable software to assist in color calibration and color matching. Direct e-mail links to Nazdar departments such as customer service, technical service, and regulatory compliance provide fast response to any questions concerning Nazdar products.

If you've visited the Nazdar On-Line site in the past, stop by again; we're continually updating and improving our programming and information. We're sure you'll find it both educational and informative.

UV Screen Inks Reference Chart

NAZDAR Ink Technologies

UV Flexiform 1500
- Indoor/Outdoor
- Vacuum or Thermal Forming
- 3-Dimensional POP Applications
- Superior Flexibility

PowerPrint® 1600
- Indoor/Outdoor - 2 year
- Multi-Purpose POP Applications
- High Speed, Low UV output
- Hard ink surface, Low Odor
- High Block Resistance

PowerPrint® Plus 1800
- Indoor/Outdoor – 2 year
- Wide Range of Substrates
- Corrugated Plastics
- High Speed, Low UV output
- High Block Resistance

PowerPrint® Banner 1900
- Indoor/Outdoor - 2 year
- Low UV output, Good Flexibility
- High Block Resistance

EC3600 Economy Process Colors
- Indoor/Outdoor Short Term – 6 mos
- Economical Vinyl Banner Ink
- Halftone Availability Only
- Not InterPrintable w/3900 Series

4000 Series
- Indoor/Outdoor – 2 year
- Excellent Acrylic Adhesion
- Heat Bend Applications
- Suitable For Vacuum Forming
- Wide Substrate Range Adhesion

4200 Series
- Indoor and short-term outdoor
- Optimizes cure speed, adhesion range, ink film flexibility, print speed, and image quality

	POP Inks						
	1500	1600	1800	1900	36EC	4000	4200
ABS	X	X	X			X	
Acylic	X					X	
Cardstock		X	X	X		X	
Cardstock - Uncoated		M	M	M			X
Cardstock - Polycoated		C	X	X		X	
Corrugated Board		M	M	M			
Corrugated Plastics		C	X	C		X	
Foamcore		X	X	X		X	
Metal - Acrylic Coated		C	C			C	
Metal - Enamel Coated		C	C			C	
Paper - Coated		X	X			X	X
Paper - Uncoated		M	M	M			
PET							
PETG	X	X	X			X	
Polycarbonate	X	X	X	X		X	
Polycarbonate (w/adhesive)							
Polyester (print treated)		X					
Polyester (top coated)			X			X	X
Polyethylene HD (treated)			X	X		X	
Polyethylene LD (treated) Container		C					
Polyethylene Banner (treated)		C	X	X		X	X
Polypropylene (treated)		C	X	C		X	X
Polystyrene	X	X	X	X		X	X
PVC/Sintra®/Celtec		X	X	X		X	
Static Cling		S		X		X	X
Tyvek®		M				X	
Vinyl - Banner		S		X	X	X	X
Vinyl - Decal		X	X	X		S	
Vinyl - Rigid	X	X	X	X		S	X

*Pre-test all recommendations prior to full production. Where noted "X" indicates recommended for testing, "S" indicates some materials, "M" indicates recommended for testing with matte flattener, "C" indicates recommended for testing with appropriate catalyst. When catalyzing UV inks, typically 3 - 5% NB80 is used for all applications. Whenever using a catalyst, allow 24 – 48 hours for inks to fully post-cure before checking adhesion.

This product has been tested on this class of material and is recommended for testing under your specific processing conditions.

NAZDAR® Ink Technologies

2400 UV/LED Membrane Overlay
• For second surface printing
• Indoor/Short Term Outdoor

3400 UV Nameplate
• Indoor/Outdoor
• Nameplate / Membrane Overlays
• Compatible w/Acrylic Laminating Adhesives
• 1st & 2nd Surface Printing
• Excellent Opacity & Flexibility

2300 UV/LED Container
• Indoor/Short Term Outdoor
• High Performance Container Ink

N3100
• High Speed Container Printing
• Excellent Adhesion, Scuff, Solvent & Chemical Resistance

VersaCon® 4100
• High Speed Container Printing
• Variety of Plastics
• Excellent Adhesion, Scuff, Solvent & Chemical Resistance

3500 Durable Graphic
• Indoor/Outdoor Fleet Graphics
• Premium Vinyl Film Applications
• Superior Flexibility & Elongation
• Excellent Weatherability & Chemical Resistance Suitable for
• Thermal Die-Cutting & Premasks

3600 Decal
• Indoor/Outdoor
• High Performance Decal Ink
• Excellent Exterior Durability & Chemical Resistance
• Suitable for Thermal Die-Cut

	Nameplate		Container			Decal	
	2400	3400	2300	N3100	4100	3500	3600
ABS							X
Acylic							
Cardstock							X
Cardboard							
Cardstock - Uncoated							
Cardstock - Polycoated							
Corrugated Board							
Corrugated Plastics (treated)							
Foamcore							
Glass			X				
Metal - Acrylic Coated							
Metal - Enamel Coated							
Paper - Coated							
Paper - Uncoated							
PET			X		X		
PETG					X		
Polycarbonate	X				X	X	X
Polycarbonate (w/adhesive)		X					
Polyester (print treated)		X				X	X
Polyester (top coated)	S	X				C	C
Polyethylene HD (treated)			X	X	X		
Polyethylene LD (treated)			X	X	X		
Polyethylene Banner (treated)							X
Polypropylene (treated)			X	X	X		
Polystyrene							
PVC/Sintra®/Celtec							
Static Cling							
Tyvek®							
Vinyl - Banner							
Vinyl - Decal						X	X
Vinyl - Rigid						X	X

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This product has been tested on this class of material and is recommended for testing under your specific processing conditions.

Solvent Screen Inks Reference Chart

9700 All Purpose
- Indoor/Outdoor
- Wide Range of Substrates
- High Gloss, Extremely Flexible
- Suitable for Vacuum Forming

7900 Corogloss
- Indoor/Outdoor Short Term
- Treated Corrugated Plastics
- POP & Signage Applications

7200 Lacquer
- *Indoor Only*
- POP Displays & Book Covers
- Clean, Bright Colors
- Fast Drying

59000 Enamel Plus Gloss
- Indoor/Outdoor
- Hard-To-Adhere-To-Substrates
- Signs & Displays

Versacon® Classic 5100
- Single Part Container Ink

VF Flat Vinyl
- *Indoor Only*
- Excellent Printability
- Rigid and Flexible Vinyls
- Fast Drying and Non-Blocking
- Can Be Heat Sealed

S2 System-2 Gloss Vinyl
- Indoor/Outdoor
- Optimum Performance Decal
- High Gloss, Fast Drying
- Great Chemical Resistance

2700 Aquasafe
- Indoor/Outdoor Water-Based
- Wide Range of Substrates
- Good Weather Resistance
- Flexible for Vacuum Forming

	9700	7900	7200	59000	5100	VF	S2	2700
ABS	X						X	X
Acetate	X					X	X	X
Acylic	X			X			X	X
Aluminum (Anodized)				X				
Brass				X				
Butyrate	X					X		X
Cardboard	M		M	M				M
Cardstock - Uncoated	M		M					M
Cardstock - Polycoated	C	X	X					C
Corrugated Board	M		M	M				M
Corrugated Plastics	C	X						
Fiberboard			X	X				
Glass				X				
Leather			X					
Masonite				X				
Metal - Acrylic Coated	C		X	X				C
Metal - Enamel Coated	C		X	X				C
Paper - Coated	X		X	X				X
Paper - Uncoated	M		M					M
PET								
PETG	X						X	X
Polycarbonate	X				X	X	X	X
Polycarbonate (w/adhesive)								
Polyester (print treated)						X	X	
Polyester (top coated)	X		X			X	X	X
Polyethylene HD (treated)	C			X	X			C
Polyethylene LD (treated)					X			
Polyethylene Banner								
Polypropylene (treated)	C	X			X			C
Polystyrene	X						X	X
Static Cling						X	X	M
Tyvek®	M		M					M
Vinyl - Banner	M					X	M	M
Vinyl - Decal	X					X	X	X
Vinyl - Rigid	X					X	X	X
Wood			X	X				

*Pre-test all recommendations prior to full production. Where noted "X" indicates recommended for testing, "S" indicates some material s, "M" indicates recommended for testing with matte flattener, "C" indicates recommended for testing with appropriate catalyst. When catalyzing solvent-based inks, typically 10% NB72 is used for indoor applications and 10% NB80 is used for outdoor applications. Whenever using a catalyst, allow 24 – 48 hours for inks to fully post-cure before checking adhesion.

This product has been tested on this class of material but is recommended for testing under your specific processing conditions.

An Ink That's Right For Every Job.

U.S.A. Phone: 1-800-767-9942

Solvent Screen Inks Reference Chart

5500 Flat Poster
• *Indoor Only*
• Flat Finish
• Short Term POP Displays
• Poster & Serigraph Applications

6100 Fast Dry Enamel
• *Indoor Only*
• Hard-To-Adhere-To-Surfaces
• Fiber Drum & Treated Polyethylene
• Excellent Resistance To Soaps &
  Detergents

8400 CVIM Decorating
• Indoor/Outdoor Short Term
• Designed for Polyesters and
  In-Mold Decorating Applications
• *Suitable Replacement for 9600*

8800 Color Vue Membrane
• Indoor/Outdoor - Specifically For:
• Automotive, Membrane Overlay
  & Appliance Decorating
• Transparent Lens Like Clarity

8900 Super Set Thermo Set
• Indoor/Outdoor
• High Solids Metal Ink
• Excellent Resistance to Solvents,
• Chemicals, Humidity & Abrasion

ADE Epoxy
• 2 Part Catalyst System
• Hard-To-Adhere-To-Surfaces
• Electronic & Industrial Applications
• Outstanding Solvent, Chemical
  & Abrasion Resistance

GV Gloss Vinyl
• Indoor/Outdoor
• High Performance Vinyl Ink
• Extremely Flexible
• Suitable for Vacuum Forming

	5500	6100	8400	8800	8900	ADE	GV
ABS				X			
Acetate				X			X
Acylic		X		X			
Aluminum (Anodized)		X	C		X	X	
Brass		X	C		X	X	
Cardboard	X	M					
Cardstock - Uncoated	X						
Cardstock - Polycoated		X					
Corrugated Board	X	M					
Corrugated Plastics			C			X	
Fiberboard		X					
Glass		X			X	X	
Leather			C				
Metal - Acrylic Coated		X	C		X	X	
Metal - Enamel Coated		X	C		X		
Metal - Polyester Coated			C		X		
Paper - Coated	X	X					
Paper - Uncoated	X	M					
PET			C				
PETG			C				
Polycarbonate			X	X			X
Polycarbonate (w/adhesive)				X			
Polyester (print treated)			C	X			X
Polyester (top coated)			C	X			X
Polyethylene HD (treated)		X	C			X	
Polyethylene LD (treated)							
Polyethylene Banner							
Polypropylene (treated)		X				X	
Polypropylene (Untreated)							
Polystyrene							
Static Cling							
Tyvek®							
Vinyl - Banner							
Vinyl - Decal							X
Vinyl - Rigid							X
Wood		X					

*Pre-test all recommendations prior to full production. Where noted "X" indicates recommended for testing, "S" indicates some materials, "M" indicates recommended for testing with matte flattener, "C" indicates recommended for testing with appropriate catalyst. When catalyzing solvent-based inks, typically 10% NB72 is used for indoor applications and 10% NB80 is used for outdoor applications. Whenever using a catalyst, allow 24 – 48 hours for inks to fully post-cure before checking adhesion.

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Screen Ink Simulations for the Pantone® Matching System

Product Information

Nazdar's simulations for the Pantone Matching System® are user-friendly systems that allow Nazdar customers to simulate any of the Pantone® Color Specifier colors with the most popular conventional and ultra violet curable inks.

Nazdar's screen printed color reproductions of the Pantone® Color Formula Guide are simulations of the original offset produced colors. While other screen printing ink manufacturers offer various formula guides for simulating Pantone® colors, Nazdar's method of color reproduction has proven to be more consistently accurate.

Benefits of Nazdar's PMS Formulas

Nazdar formulas are unique for two reasons:

1) All formulas were hand-matched under stringent quality control measures to ensure the most accurate simulations possible.

2) Higher pigment concentration means more opacity or color density, allowing stronger color possibilities, easier matching and reproduction of the Pantone® shades tailored for the screen printing market.

Higher pigment (greater density) base colors allow easy color adjustment from increasing the color depth to decreasing color value without significantly affecting the color formula.

Because the Nazdar base matching colors contain higher densities, the screen ink simulations for the Pantone Matching System® provide much more versatility in color control. This makes it easier to match colors on a variety of substrates with varying ink deposits caused by mesh, squeegee, print mechanics, etc.

Base Colors

Nazdar's screen ink simulations for the Pantone Matching System® consists of high intensity base component colors including:

- Mixing Clear
- Tinting White
- Tinting Black
- Orange
- Yellow
- Warm Red
- Rubine Red
- Rhodamine Red
- Purple
- Violet
- Reflex Blue
- Process Blue
- Green

Screen Inks Color Matching Recommendations

All color formulas in the Nazdar formula guides use deposit consistencies resulting from controlled print conditions including squeegee, mesh (conventional ink: 260 monofilament, UV ink: 390 plain weave), tension, off contact, print size and other mechanics.

Variables inherent to screen printing often require color adjustment in duplication of the proper color shade or density:
  1) Color too dark – reduce density by adding Mixing Clear until the proper color is achieved.
  2) Color too light – reduce the amount of Mixing Clear in the formula until the proper color is achieved.

Since all colors vary significantly in weight, the use of an accurate scale is required for reliable color matching. Scales are available that will weigh in ounces or parts of ounces up to a maximum of one quart range. There are also scales that will measure from ounces to fifty pounds or more.

The use of a knife (spatula) for transferring small amounts of ink from one container to another is much more effective and accurate than pouring or dipping. These knives are available in a variety of sizes, allowing you to mix quantities ranging from a few ounces to five gallons. Wax-free containers ranging from disposable cups to 6-12 ounce plastic containers with lids are recommended for mixing small amounts of color. Power or mechanical mixing is recommended for good reproducable color matching.

Technical Assistance

All color matching formulas included in the Pantone® Color Formula Guide are available in Nazdar's color simulation formula guides for the Pantone Matching System® for conventional and UV inks.

For further assistance, contact Nazdar's technical service department at: 1-866-340-3579.

Nazdar offers fast, accurate custom color matching services. Contact your nearest Nazdar distributor for further information.

Software for Color Formulation and Matching

This symbol designates inks which are part of Nazdar's ColorStar® Color Management System software. ColorStar is a powerful productivity tool developed specifically for screen printing shops, offering a list of features to make your business more efficient – and profitable. The ColorStar package includes Pantone® formula matches for the most popular Nazdar UV and conventional inks and comes complete with software, an easy to follow manual, and a tutorial video program.

• Increases your productivity
• Allows you to produce the correct Pantone® color match time after time.
• Helps reduce set up time and costs with repeat print jobs by allowing you to store the print
  parameters along with each formula.
• Guarantees the right quantity of ink mixed for each print job by allowing you to perform accurate calculations
  before you begin.
• Allows you to accurately cost-out a job before giving a quote.
• Compatible with any PC in the Microsoft Windows environment.

All trademarks used herein are property of Pantone, Inc.

Nazdar's color mixing ink formulations produce only simulations of Pantone® Colors in this color reproduction method due to differences in ink film, opacity and pigment selection. The pigment selection used in blending inks may cause metamerism. Pantone, Inc. assumes no responsibility for formula accuracy. All trademarks used herein are either the property of Nazdar, Pantone, Inc. or other companies. Portions© Pantone, Inc., 1963, 1991.

Pantone® is Pantone, Inc's check-standard trademark for color. Portions© Pantone, Inc., 1963, 1991.

Halftone & Color Process Screen Printing

Halftone Printing

Halftone images are commonly printed as single color, two color duotone and full four color process color printing. Process color printing is a method to reproduce full color images through the use of four colors, Cyan, Magenta, Yellow, and Black with halftone dot patterns. All process color images are printed as some form of a halftone.

Halftone Inks

Screen Printing halftone inks are different from the standard screen printing ink colors. There are three characteristics that distinguish halftone inks; color, density, and viscosity. These characteristics will typically apply to each type of ink system: water-based, solvent-based, and UV curing.

Color

Nazdar has been manufacturing halftone inks over the course of several generations of halftone color specifications. Therefore not all Nazdar halftone screen printing inks are made to meet the same printing specifications. Depending upon the market requirements, there will be Nazdar halftone inks that meet ISO 12647-2 specifications for G7 printing, and there are halftone inks that are designed to meet SWOP proofing specifications.

Density

The ability of a transparent ink to absorb specific wavelengths of reflected light is called density and is measured with a densitometer. The measurement of density of a process color ink is considered an excellent way to measure and control actual ink deposit.

Most Nazdar Screen Inks are made in a standard density set that will result in commercial graphic arts density values on the intended substrate for that specific ink series.

Most Nazdar ink series will also have a dense set of halftone inks which are intended to give a printer the flexibility to adjust the density of an ink for various substrates and ink deposit levels.

Viscosity

Halftones are specified by LPI or line per inch of dots. Common LPI counts for screen printing can range from 35 LPI to 150 LPI. This wide variation of halftone LPI count requires a very different performance level from the inks. Generally speaking, the lower LPI counts use a thicker or heavier viscosity ink, while LPI counts above 85 LPI require a less viscous ink that will flow out more and facilitate higher printing speeds.

- Nazdar halftone inks are built in three different viscosity levels:
- HT designated inks are heavy body inks for low LPI counts.
- MTR medium tack rheology inks are for mid LPI counts of 55 – 85 LPI.
- LTR low tack rheology inks are for high LPI counts of 85 LPI and higher.

Estimating Screen Ink Coverage & Costs

Technical information provided for Nazdar Inks always references ink coverage within a range of expected results, such as 2,700 to 3,500 square feet per gallon. This wide range considers all the variables a particular ink series may experience when printed using various applications, mesh, equipment, substrate, and ink viscosity. If your facility prints using three or four different ink/substrate combinations, these coverage figures are too broad for you to accurately determine ink coverage and cost.

To more accurately estimate ink coverage, cost and quantity required for a given job, Nazdar offers the following formula:

1. Weigh the ink in the container after it has been mixed and thinned, just prior to printing. Record this weight.

   1 Quart of 1652 Super Opaque Black = 4168.5 grams per gallon

2. Print one sq. ft. (12″ x 12″ or some division of this) of solid ink coverage onto the substrate most often used for this particular ink. Use the ideal press set-up to achieve the most even ink deposit. The more sheets printed, the more accurate the results. In this example, 122 sheets were printed. Return as much of the ink as possible back into the container and weigh the container. Subtract this weight from the first weight to yield the weight of the ink used to print 122 sheets.

   122 square feet coverage of 1652 on gloss Quintessence 80# cover stock used 136 grams of ink 4168.5 grams per gallon ÷ 136 grams ink used = 30.7 x 122 square feet = 3745.4 sq. ft. gallon of 1652 on Gloss Coated Quintessence Paper using 380.34 mesh with a 70/90/70 durometer at 24 n/cm.

   Divide the cost of one gallon of this ink by the coverage figure in order to achieve the actual cost per square foot of this particular ink on this particular stock.

   $107.70 per gallon ÷ 3745.4 sq. ft. gallon = .029 or $ .029 per square foot.

3. To put these figures into action, estimate the amount of 1652 ink required and the cost to produce 5,000 posters where the actual print area is 14″ x 22″ on a 20″ x 26″ poster. Since the print area is not solid, you may "eyeball" the artwork to guess the approximate coverage of ink as a percentage. This is also common for halftone and process color images.

   14″ x 22″ = 308 square inches x 60% coverage (an estimate) = 185 square inches ink
   185 sq. inches ÷ 144 (12″ x 12″) = 1.28 square feet of ink
   1.28 square feet of ink x 5,000 sheets = 6,400 square feet total ink coverage
   6,400 square feet ÷ 3745.4 square feet per gallon = 1.71 gallons of 1652
   Total ink cost without waste is 1.71 x $107.70 = $184.17

   Many of these calculations have been included as part of Nazdar's ColorStar® software program, enabling printers to quickly and easily determine costs and coverages on any particular job. See page 57 for more information about the many time - and money - saving benefits of ColorStar.

The following symbols are used throughout this catalog to provide quick visual references for certain important product features:

These symbols represent the type of chemistry used in formulating specific ink products:

Solvent Inks   *UV Inks*   *Water Base Inks*

ColorStar® = This symbol designates inks which are part of Nazdar's ColorStar® Color Management System *System Ink* software. ColorStar is used to produce accurate PANTONE® color matches, cost-out jobs, store custom ink formulations, and much more. See the ColorStar section on page 4 for more information.

Though we have endeavored to make this Guide as comprehensive as possible, we cannot address every conceivable printing situation a screen printer might encounter. If you have questions concerning issues not covered in this Guide, we encourage you to contact our Technical Service department at 866-340-3579, or e-mail to cstech@nazdar.com.

Nazdar's color mixing ink formulations produce only simulations of PANTONE® Colors in this color reproduction method due to differences in ink film, opacity and pigment selection. The pigment selection used in blending inks may cause metamerism. Pantone, Inc. assumes no responsibility for formula accuracy. All trademarks used herein are either the property of Nazdar, Pantone, Inc., or other companies. Portions© Pantone, Inc., 2003.

Pantone® is Pantone, Inc's check-standard trademark for color. Portions© Pantone, Inc., 2003.

Guidelines for Ink Usage:

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.

Point of Purchase
Screen Printing Inks

Point of Purchase Inks

1500 Series UV Flexiform Screen Ink

1500 Series UV Flexiform Screen Ink is designed for three-dimensional vacuum or thermal forming on a wide variety of substrates. 1500 Series exhibits excellent adhesion, as well as superior flexibility for forming applications in point of purchase and specialty markets such as three-dimensional signs, game boards, beverage panels, recreational helmets and specialty displays.

Substrates:
Styrene, Polycarbonate, ABS, Acrylic, PETG, PVC.

End Uses:
Three-dimensional signs, game boards, beverage panels, recreational helmets and specialty items requiring vacuum or thermal formed displays.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
1510	Primrose Yellow
1511	Lemon Yellow
1512	Medium Yellow
1519	Fire Red
1520	Brilliant Orange
1526	Mixing Clear
1527	Overprint Clear
1567	Opaque Reflex Blue
1568	Opaque Process Blue
1575	Super Opaque White
1578	High Intensity White
1579	High Intensity Black

Halftone Colors
1590	Halftone Extender Base
15101	Halftone Cyan Dense
15102	Halftone Magenta Dense (BS)
15103	Halftone Yellow Dense (GS)
15104	Halftone Black Dense
15105	Halftone Yellow Dense (RS)
15106	Halftone High Intensity Black

Pantone Matching System® Base Colors
15358	Tinting White
15359	Tinting Black
15360	Orange
15361	Yellow
15362	Warm Red
15363	Rubine Red
15364	Rhodamine Red
15365	Purple
15366	Violet
15367	Reflex Blue
15368	Process Blue
15369	Green

Pantone® 871c - 877c Non-Metallic Simulated Colors
67332215	SPL 15 871C	Pearl Gold
67332315	SPL 15 872C	Pearl Gold
67332415	SPL 15 873C	Pearl Gold
67332515	SPL 15 874C	Pearl Gold
67332615	SPL 15 875C	Pearl Gold
67332715	SPL 15 876C	Pearl Gold
67332815	SPL 15 877C	Pearl Silver

Reducer
RE315   UV Reducer

Cleaners
IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card
The following is a list of screen printed samples available.

UV Curable Screen Ink: CARDUV
Special Effects Color Card: CARDSPL
Non-Metallic Pantone® Simulations sheet: LIT0121

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PowerPrint® 1600 Series UV Screen Ink

The multi-purpose PowerPrint® 1600 Series UV Screen Ink meets the increased processing speeds of modern printing equipment, curing at lower levels of ultraviolet energy, thereby reducing energy costs and substrate heat exposure. PowerPrint® 1600 Series cures to a tough finish that is highly block resistant. It is engineered to be cost effective for indoor and outdoor retail displays. PowerPrint® 1600 Series includes both gloss and matte colors.

Substrates:
Styrenes, rigid vinyls, pressure sensitive vinyls, polycarbonates, some acrylics, coated papers, coated cardstocks and treated fluted polypropylenes (see Additives section)

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/ Reducers and cleaners.

Standard Printing Colors
1610	Primrose Yellow
1611	Lemon Yellow
1612	Medium Yellow
1613	Emerald Green
1619	Fire Red
1620	Brilliant Orange
1626	Mixing Clear
1627	Overprint Clear
1636	Metallic Mixing Clear
1652	Super Opaque Black
1667	Reflex Blue
1668	Process Blue
1675	Super Opaque White
1678	High Intensity White
1679	High Intensity Black
1698	Bright White

Matte Standard Printing Colors
M1626	Matte Mixing Clear
M1627	Matte Overprint Clear
M1652	Matte Opaque Black
M1675	Matte Opaque White
M1679	Matte High Intensity Black

Pantone Matching System® Base Colors
16358	Tinting White
16359	Tinting Black
16360	Orange
16361	Yellow
16362	Warm Red
16363	Rubine Red
16364	Rhodamine Red
16365	Purple
16366	Violet
16367	Reflex Blue
16368	Process Blue
16369	Green

Matte Pantone Matching System® Base Colors
M16358	Matte Tinting White
M16359	Matte Tinting Black
M16360	Matte Orange
M16361	Matte Yellow
M16362	Matte Warm Red
M16363	Matte Rubine Red
M16364	Matte Rhodamine Red
M16365	Matte Purple
M16366	Matte Violet
M16367	Matte Reflex Blue
M16368	Matte Process Blue
M16369	Matte Green

Medium Tack Rheology (MTR) Halftones
16140	Halftone Extender Base (MTR)
16141	Halftone Cyan (MTR)
16144	Halftone Black (MTR)
16147	Halftone Yellow (MTR)
16EC147	Economy Halftone Yellow (MTR)
16148	Halftone Magenta (MTR)
16EC148	Economy Halftone Magenta (MTR)
16151	Halftone Cyan Dense (MTR)
16154	Halftone Black Dense (MTR)
16155	Halftone Yellow Dense RS (MTR)
16156	Halftone High Intensity Black (MTR)
16157	Halftone Yellow Dense (MTR)
16EC157	Economy Halftone Yellow Dense (MTR)
16158	Halftone Magenta Dense (MTR)
16EC158	Economy Halftone Magenta Dense (MTR)

Low Tack Rheology (LTR) Halftones
16120	Halftone Extender Base (LTR)
16121	Halftone Cyan (LTR)
16124	Halftone Black (LTR)
16127	Halftone Yellow (LTR)
16EC127	Economy Halftone Yellow (LTR)
16128	Halftone Magenta (LTR)
16EC128	Economy Halftone Magenta (LTR)
16131	Halftone Cyan Dense (LTR)
16134	Halftone Black Dense (LTR)
16135	Halftone Yellow RS Dense (LTR)
16136	High Intensity Halftone Black (LTR)
16137	Halftone Yellow Dense (LTR)
16EC137	Economy Halftone Yellow Dense (LTR)
16138	Halftone Magenta Dense (LTR)
16EC138	Economy Halftone Magenta Dense (LTR)

Matte Halftones
M1690	Matte Halftone Extender Base
M1691	Matte Halftone Cyan
M1692	Matte Halftone Magenta
M1693	Matte Halftone Yellow
M1694	Matte Halftone Black
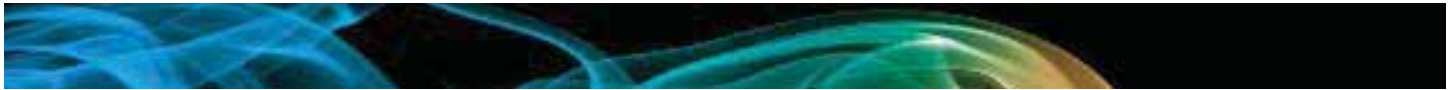
Pantone® 871c - 877c Non-Metallic Simulated Colors

67324916	SPL 16 871C Pearl Gold
67324316	SPL 16 872C Pearl Gold
67324416	SPL 16 873C Pearl Gold
67324516	SPL 16 874C Pearl Gold
67324616	SPL 16 875C Pearl Gold
67324716	SPL 16 876C Pearl Gold
67324816	SPL 16 877C Pearl Silver

Additives/Reducers

RE301	UV Reducer
RE308	UV Reducer
CARE59	UV Satin Paste
CARE63	Anti-Blocking Additive
NB80	UV Adhesion Promoter

Cleaners

IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card

The following is a list of screen printed samples available.

UV Curable Screen Ink: CARDUV
Special Effects Color Card: CARDSPL
Non-Metallic Pantone® Simulations sheet: LIT0121

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PowerPrint® Plus 1800 UV Screen Ink

The multi-purpose PowerPrint® Plus 1800 Series UV Screen Ink has been formulated to meet the processing speeds of the most modern printing equipment including in-line presses, for a wide range of substrates including treated corrugated polypropylene. PowerPrint® Plus 1800 features include: fast curing, hard ink surface, and high block resistance.

Substrates:

Styrene, cardstock, coated paper, matte vinyl, rigid vinyl, top coated polyester, pressure sensitive vinyl, treated polyethylene banner, treated polypropylene banner, treated corrugated polypropylene and some high density polyethylene sheeting (not recommended for highly plasticized vinyl materials such as vinyl banner and static cling, and not recommended for container or nameplate applications)

The surface tension for polyethylene and polypropylene substrates should be at or above 44 dynes/cm

End Uses:

Point-of-Purchase applications on a wide range of substrates for indoor and outdoor advertising.

Product Range:

Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

1810	Primrose Yellow	1827	Overprint Clear
1811	Lemon Yellow	1852	Super Opaque Black
1812	Medium Yellow	1867	Reflex Blue
1813	Emerald Green	1868	Process Blue
1819	Fire Red	1875	Super Opaque White
1820	Brilliant Orange	1878	High Intensity White
1826	Mixing Clear	1879	High Intensity Black

Pantone Matching System® Base Colors

18358	Tinting White	18364	Rhodamine Red
18359	Tinting Black	18365	Purple
18360	Orange	18366	Violet
18361	Yellow	18367	Reflex Blue
18362	Warm Red	18368	Process Blue
18363	Rubine Red	18369	Green

LTR Standard/High Density Halftone Colors (Low Tack Rheology)

18120	Halftone Extender Base (LTR)
18121	Halftone Cyan (LTR)
18122	Halftone Magenta (LTR)
18EC122	Economy Halftone Magenta (LTR)
18123	Halftone Yellow (LTR)
18EC123	Economy Halftone Yellow (LTR)
18124	Halftone Black (LTR)
18131	Halftone Cyan Dense (LTR)
18132	Halftone Magenta Dense (LTR)
18EC132	Economy Halftone Magenta Dense (LTR)
18133	Halftone Yellow Dense (LTR)
18EC133	Economy Halftone Yellow Dense (LTR)
18134	Halftone Black Dense (LTR)
18135	Halftone Yellow Dense RS (LTR)
18136	High Intensity Halftone Black (LTR)

MTR Standard/High Density Halftone Colors (Medium Tack Rheology)

18140	Halftone Extender Base (MTR)
18141	Halftone Cyan (MTR)
18142	Halftone Magenta (MTR)
18EC142	Economy Halftone Magenta (MTR)
18143	Halftone Yellow (MTR)
18EC143	Economy Halftone Yellow (MTR)
18144	Halftone Black (MTR)
18151	Halftone Cyan Dense (MTR)
18152	Halftone Magenta Dense (MTR)
18EC152	Economy Halftone Magenta Dense (MTR)
18153	Halftone Yellow Dense (MTR)
18EC153	Economy Halftone Yellow Dense (MTR)
18154	Halftone Black Dense (MTR)
18155	Halftone Yellow Dense RS (MTR)
18156	Halftone High Intensity Black (MTR)

Pantone® 871c - 877c Non-Metallic Simulated Colors

68157518	SPL 18 871C Pearl Gold
68157618	SPL 18 872C Pearl Gold
68157718	SPL 18 873C Pearl Gold
68157818	SPL 18 874C Pearl Gold
68157918	SPL 18 875C Pearl Gold
68158018	SPL 18 876C Pearl Gold
68158118	SPL 18 877C Pearl Silver

Additives/Reducers

RE301	UV Reducer	CARE63	Anti-Blocking Additive
RE310	UV Reducer	NB80	UV Adhesion Promoter
CARE59	UV Satin Paste		(quarts only)

Cleaners

IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card

The following is a list of screen printed samples available.

UV Curable Screen Ink: CARDUV
Special Effects Color Card: CARDSPL
Non-Metallic Pantone® Simulations sheet: LIT0121

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PowerPrint® Banner 1900 UV Screen Ink

PowerPrint® Banner 1900 UV Screen Ink has been formulated to excel in performance for indoor and outdoor Point of Purchase display and banner printing. PowerPrint® Banner 1900 features: low UV output required for curing, good flexibility, and extremely high block resistance.

Substrates:
Vinyl banner, treated polyethylene banner, most static cling, pressure sensitive vinyl and styrene

The surface tension for polyethylene substrates should be at or above 44 dynes/cm

End Uses:
Indoor and outdoor banner and POP applications.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
1910	Primrose Yellow
1911	Lemon Yellow
1912	Medium Yellow
1913	Emerald Green
1919	Fire Red
1920	Brilliant Orange
1926	Mixing Clear
1927	Overprint Clear
1950	Barrier White
1952	Super Opaque Black
1967	Reflex Blue
1968	Process Blue
1975	Super Opaque White
1978	High Intensity White
1979	High Intensity Black

Standard/Dense MTR Halftone Colors
19140	Halftone Extender Base (MTR)
19141	Halftone Cyan (MTR)
19142	Halftone Magenta (MTR)
19EC142	Economy Halftone Magenta (MTR)
19143	Halftone Yellow (MTR)
19EC143	Economy Halftone Yellow (MTR)
19144	Halftone Black (MTR)
19151	Halftone Cyan Dense (MTR)
19152	Halftone Magenta Dense (MTR)
19EC152	Economy Halftone Magenta Dense (MTR)
19153	Halftone Yellow Dense (MTR)
19EC153	Economy Halftone Yellow Dense (MTR)
19154	Halftone Black Dense (MTR)
19155	Halftone Yellow Dense RS (MTR)
19156	Halftone High Intensity Black (MTR)

Pantone Matching System® Base Colors
19358	Tinting White
19359	Tinting Black
19360	Orange
19361	Yellow
19362	Warm Red
19363	Rubine Red
19364	Rhodamine Red
19365	Purple
19366	Violet
19367	Reflex Blue
19368	Process Blue
19369	Green

Pantone® 871c - 877c Non-Metallic Simulated Colors
68880619	SPL 19 871C Pearl Gold
68880719	SPL 19 872C Pearl Gold
68880819	SPL 19 873C Pearl Gold
68880919	SPL 19 874C Pearl Gold
68881019	SPL 19 875C Pearl Gold
68881119	SPL 19 876C Pearl Gold
68881219	SPL 19 877C Pearl Silver

Additives/Reducers
RE308	UV Reducer (for flexibility)
RE310	UV Reducer
NB80	UV Adhesion Promoter

Clean-Up
IMS203	Economy Graphic Screen Wash *(Not available in quarts)*
IMS207C	Graphic Recirculating Wash *(Not available in quarts)*
IMS301	Premium Graphic Press Wash *(Not available in quarts)*

Color Card
UV Curable Screen Ink: CARDUV
Special Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Economy 3600 Vinyl Banner UV Process Colors

The Economy 3600 Vinyl Banner Process Colors are UV screen inks specifically formulated for 4-color process printing of indoor and short term outdoor POP vinyl banner applications.

Substrates:
Vinyl banner

End Uses:
For indoor and short term outdoor POP vinyl banner applications

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/ Reducers and cleaners.

Standard LTR Halftone Colors
36EC120 Econo HT Ex Base (LTR)
36EC121 Econo HT Cyan (LTR)
36EC122 Econo HT Magenta (LTR)
36EC123 Econo HT Yellow (LTR)
36EC134 Econo HT Black Dense (LTR)

Standard MTR Halftone Colors
36EC140 Econo HT Ext Base (MTR)
36EC141 Econo HT Cyan (MTR)
36EC142 Econo HT Magenta (MTR)
36EC143 Econo HT Yellow (MTR)
36EC144 Econo HT Black (MTR)

Dense MTR Halftone Colors
36EC151 Econo HT Cyan Dens(MTR)
36EC152 Econo HT Mag Dense(MTR)
36EC153 Econo HT Yel Dense(MTR)
36EC154 Econo HT Blk Dense(MTR)
36EC156 Econo Hi Int HT Bk(MTR)

Additives/Reducers
RE306   UV Reducer
CARE59   UV Satin Paste

Cleaners
IMS203   Economy Graphic Screen Wash *(Not available in quarts)*
IMS301   Premium Graphic Press Wash *(Not available in quarts)*

Color Card
UV Curable Screen Ink: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

3800 Series UV
Poly Banner Screen Ink

3800 Series Poly Banner Ink has been formulated specifically for indoor and outdoor treated polyethylene banner applications, where excellent adhesion and superior flexibility are required. Properly cured, this ink will resist blocking when stacked ink to ink.

Substrates:
Surface treated polyethylene banner film (45 dynes per cm or higher)

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
3810	Primrose Yellow
3811	Lemon Yellow
3812	Medium Yellow
3818	Scarlet Red
3819	Fire Red
3820	Brilliant Orange
3826	Mixing Clear
3852	Super Opaque Black
3875	Super Opaque White
3879	High Intensity Black

Halftone Colors MTR Standard/Dense
3890	Halftone Extender Base
3891	Halftone Cyan
3892	Halftone Magenta
3893	Halftone Yellow
3894	Halftone Black
38101	Halftone Cyan Dense
38102	Halftone Magenta Dense
38103	Halftone Yellow Dense
38104	Halftone Black Dense

Pantone Matching System® Base Colors
3858	Tinting White
3859	Tinting Black
3861	Yellow
3862	Warm Red
3863	Rubine Red
3864	Rhodamine Red
3865	Purple
3866	Violet
3867	Reflex Blue
3868	Process Blue
3869	Green

Pantone® 871c - 877c Non-Metallic Simulated Colors
67323438	Spl 38 871c Pearl Gold
67323538	Spl 38 872c Pearl Gold
67323638	Spl 38 873c Pearl Gold
67323938	Spl 38 874c Pearl Gold
67324038	Spl 38 875c Pearl Gold
67324138	Spl 38 876c Pearl Gold
67324238	Spl 38 877c Pearl Silver

Additives/Reducers
RE308 UV Reducer

Cleaners
IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card:
UV Color Card: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

3900 Series UV Flexible Banner Screen Ink

3900 Series UV Flexible Banner Screen Ink has been formulated specifically for indoor and outdoor vinyl banner applications requiring an ink film flexible enough to accommodate folding, sewing, and grommeting, while being block resistant when banners are stacked ink to ink. This ink will work well for cling vinyl applications that require extreme flexibility and the intercoat adhesion properties necessary for printing double sided window decals. 3900 Series has been designed to adhere to highly plasticized vinyls.

Substrates:
Vinyl banner, static cling vinyl, low tack vinyl and other flexible vinyls

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
3910 Primrose Yellow
3911 Lemon Yellow
3912 Medium Yellow
3919 Fire Red
3820 Brilliant Orange
3921 Peacock Blue
3926 Mixing Clear
3927 Overprint Clear
3950 Barrier White
3952 Super Opaque Black
3975 Super Opaque White
3978 High Intensity White
3979 High Intensity Black

Halftone Colors MTR Standard/Dense
3990   Halftone Extender Base
3991   Halftone Cyan
3992   Halftone Magenta
3993   Halftone Yellow
3994   Halftone Black
39101 Halftone Cyan Dense
39102 Halftone Magenta Dense
39103 Halftone Yellow Dense
39104 Halftone Black Dense
39356 Halftone High Intensity Black

Pantone Matching System® Base Colors
3958   Tinting White
3959   Tinting Black
3961   Yellow
3962   Warm Red
3963   Rubine Red
3964   Rhodamine Red
3965   Purple
3966   Violet
3967   Reflex Blue
3968   Process Blue
3969   Green

Pantone® 871c - 877c Non-Metallic Simulated Colors
67325139   Spl 39 871c Pearl Gold
67325239   Spl 39 872c Pearl Gold
67325339   Spl 39 873c Pearl Gold
67325439   Spl 39 874c Pearl Gold
67325539   Spl 39 875c Pearl Gold
67325639   Spl 39 876c Pearl Gold
67325739   Spl 39 877c Pearl Silver

Additives/Reducers
RE309   UV Reducer
CARE59   UV Satin Paste

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card:
UV Color Card: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

4000 Series
UV Screen Ink

4000 Series UV Screen Ink is a unique multi-purpose graphic screen printing ink formulated to adhere to a wide range of substrates and provide the flexibility to be suitable for heat-bending, router cutting, and low draw thermoforming for the sign and graphics markets.

Substrates:
PETG, styrene, acrylic, polycarbonate, most rigid and flexible vinyl, static cling vinyl, some anodized metal, rigid and flexible treated polyethylene, rigid and flexible treated polypropylene, and treated fluted polypropylene.

Various Acrylic materials including: Arkema: Plexiglas® G, Plexiglas® MC, Plexiglas® MCS, Plexiglas® SG, Plexiglas® T Evonik Cyro: Acrylite® FF, Acrylite® SG, Acrylite® GP Plaskolite: Optix®, Optix® LD, Duraplex

Note: Acrylic recommendations are based on internal adhesion testing under the processing outlined in this technical data sheet. Nazdar does not have control over the substrate manufacturer's process tolerance, changes to formulation, aging of material, masking material, etc. It is recommended for the user to qualify adhesion and finishing processing prior to full production.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

4010 Primrose Yellow	4050 Barrier White
4011 Lemon Yellow	4052 Super Opaque Black
4012 Medium Yellow	4067 Reflex Blue
4013 Emerald Green	4068 Process Blue
4019 Fire Red	4075 Super Opaque White
4020 Brilliant Orange	4078 High Intensity White
4026 Mixing Clear	4079 High Intensity Black
4027 Overprint Clear	4099 Black Concentrate
4029 Premium Overprint Clear	

Standard/Dense MTR Halftone Colors

40140 Extender Base (MTR)	40152 Magenta Dense (MTR)
40141 Cyan (MTR)	40153 Yellow Dense (MTR)
40142 Magenta (MTR)	40154 Black Dense (MTR)
40143 Yellow (MTR)	40155 Halftone Yellow Dense RS
40144 Black (MTR)	(MTR)
40151 Cyan Dense (MTR)	40156 High Intensity Black (MTR)

Standard/Dense LTR Halftone Colors

40120 Extender Base (LTR)	40131 Cyan Dense (LTR)
40121 Cyan (LTR)	40132 Magenta Dense (LTR)
40122 Magenta (LTR)	40133 Yellow Dense (LTR)
40123 Yellow (LTR)	40134 Black Dense (LTR)
40124 Black (LTR)	

Pantone Matching System® Base Colors:

40358 Tinting White	40364 Rhodamine Red
40359 Tinting Black	40365 Purple
40360 Orange	40366 Violet
40361 Yellow	40367 Reflex Blue
40362 Warm Red	40368 Process Blue
40363 Rubine Red	40369 Green

Pantone® 871c - 877c Metallic Simulated Colors

6002752640	SPL 40 871C Pearl Gold
6002752740	SPL 40 872C Pearl Gold
6002752840	SPL 40 873C Pearl Gold
6002752940	SPL 40 874C Pearl Gold
6002753040	SPL 40 875C Pearl Gold
6002753140	SPL 40 876C Pearl Gold
6002753240	SPL 40 877C Pearl Silver

Additives/Reducer

NB80 UV Adhesion Promoter	RE315	UV Reducer
CARE58 Rigid Fast Thinner	CARE63	Anti-Blocking Additive

Clean-Up
IMS203   Economy Graphic Screen Wash *(Not available in quarts)*
IMS207C   Graphic Recirculating Wash *(Not available in quarts)*
IMS301   Premium Graphic Press Wash *(Not available in quarts)*

Color Card
UV Curable Screen Ink: CARDUV
Special Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

4200 Series
UV Screen Ink

Nazdar's 4200 Series UV Screen Ink incorporates the newest formulation technology to optimize cure speed, adhesion range, ink film flexibility, print speed, and image quality. 4200 Series represents a breakthrough in providing a competitive, high quality ink that withstands some of the toughest finishing and shipping requirements in the graphics market.

Nazdar's 4200 Series UV Screen Ink has been formulated for indoor and short-term outdoor performance on a wide range of substrates including styrene, coated paper and corrugated polypropylene substrates.

Substrates:

Coated paper/board, styrene, treated fluted polypropylene, treated polyester, most rigid and flexible vinyl, static cling vinyl, most rigid and flexible treated polyethylene, most rigid and flexible treated polypropylene

Note: The surface tension for polyethylene and polypropylene substrates should be at or above 44 dynes/cm.

Product Range:

Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

4210	Primrose Yellow
4211	Lemon Yellow
4212	Medium Yellow
4213	Emerald Green
4219	Fire Red
4220	Brilliant Orange
4221	Peacock Blue
4226	Mixing Clear
4227	Overprint Clear
4252	Super Opaque Black
4267	Reflex Blue
4268	Process Blue
4275	Super Opaque White
4278	High Intensity White
4279	High Intensity Black

Medium Tack Rheology (MTR) Halftones

42140	Halftone Extender Base (MTR)
42141	Halftone Cyan (MTR)
42142	Halftone Magenta (MTR)
42EC142	Economy Halftone Magenta (MTR)
42143	Halftone Yellow (MTR)
42EC143	Economy Halftone Yellow (MTR)
42144	Halftone Black (MTR)
42151	Halftone Cyan Dense (MTR)
42152	Halftone Magenta Dense (MTR)
42EC152	Economy Halftone Magenta Dense (MTR)
42153	Halftone Yellow Dense (MTR)
42EC153	Economy Halftone Yellow Dense (MTR)
42154	Halftone Black Dense (MTR)

Low Tack Rheology (LTR) Halftones

42120	Halftone Extender Base (LTR)
42121	Halftone Cyan (LTR)
42EC122	Economy Halftone Magenta (LTR)
42122	Halftone Magenta (LTR)
42EC123	Economy Halftone Yellow (LTR)
42123	Halftone Yellow (LTR)
42124	Halftone Black (LTR)
42131	Halftone Cyan Dense (LTR)
42EC132	Economy Halftone Magenta Dense (LTR)
42132	Halftone Magenta Dense (LTR)
42EC133	Economy Halftone Yellow Dense (LTR)
42133	Halftone Yellow Dense (LTR)
42134	Halftone Black Dense (LTR)

Pantone Matching System® Base Colors

42358	Tinting White
42359	Tinting Black
42360	Orange
42EC360	Economy Orange
42361	Yellow
42362	Warm Red
42EC362	Economy Warm Red
42363	Rubine Red
42364	Rhodamine Red
42365	Purple
42366	Violet
42367	Reflex Blue
42368	Process Blue
42369	Green

Pantone® 871c - 877c Non-Metallic Simulated Colors

6002751942	SPL 42 871C Pearl Gold
6002752042	SPL 42 872C Pearl Gold
6002752142	SPL 42 873C Pearl Gold
6002752242	SPL 42 874C Pearl Gold
6002752342	SPL 42 875C Pearl Gold
6002752442	SPL 42 876C Pearl Gold
6002752542	SPL 42 877C Pearl Silver

Additives/Reducers

RE312   UV Reducer IMS203 Economy Graphic Screen Wash
NB80   UV Adhesion Promoter

Cleaners

IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card:

UV Color Card: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

5500 Series Flat Poster Screen Ink

5500 Series Flat Poster Screen Ink is a flat finish solvent-based ink formulated for printing on paper and card stock. 5500 Series is cost-effective and for short term POP displays, posters, serigraphs applications.

Substrates:
Coated and uncoated paper and card stock.

End Uses:
Cost-effective, short term POP displays, posters, serigraphs.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
55LF01	Primrose Yellow
55LF02	Lemon Yellow
55LF04	Sign Red
5508	Radiant Ultra Blue
5509	Midnite Blue
5511	Jet Black
5512	Opaque White
55LF14	Emerald Green
5515	Cobalt Blue
55LF16	Dark Green
55LF18	Medium Yellow
55LF20	Fire Red
5521	Rich Brown
55LF25	Cyanine Green
5526	Maroon
55LF33	Brilliant Light Orange
5536	Extender Base
55LF44	Scarlet Red
5546	Carmine Red
5547	Dark Royal Purple
5554	Dark Peacock Blue
5557	Raw Umber
5561	Brilliant Pale Gold
5570	Bronze Liquid

Fluorescent Colors
5592	Mint Green
5594	Citron Yellow
5595	Poppy Red
5596	Golden Yellow
5597	Coral Pink
5598	Tropical Orange
5599	Galaxy Blue

Additives
5500	Thinner
5549	Binder Varnish (also available in quarts)
5560	Fast Thinner
9050	Retarder Thinner

Cleaners
IMS202	Universal Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card 5500 Series: CARD55
Special Effects Color Card: CARDSPL

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

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

7200 Series
Lacquer Screen Ink

Solvent Inks · **ColorStar® System Ink**

7200 Series offers clean, bright colors for printing POP displays, signs and book covers. 7200 Series dries quickly once printed.

Substrates:
Coated paper and card stocks, polyolefins, some synthetic paper stocks, foils, wood, Tyvek® and some coated metals

End Uses:
POP displays, signs, and book covers.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
7210	Primrose Yellow
7211	Lemon Yellow
7212	Medium Yellow
7219	Fire Red
7220	Brilliant Orange
7221	Peacock Blue
7222	Ultra Blue
7227	Mixing/Overprint Clear
7252	Super Opaque Black
7275	Super Opaque White

Pantone Matching System® Base Colors
7258	Tinting White
7259	Tinting Black
7260	Orange
7261	Yellow
7262	Warm Red
7263	Rubine Red
7264	Rhodamine Red
7265	Purple
7266	Violet
7267	Reflex Blue
7268	Process Blue
7269	Green

Additives/Thinners
7248	Flatting Paste *(also available in quarts)*
RE181	Retarder
RE185	Thinner

Cleaners
IMS202	Universal Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card Conventional: CARD375
Special Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NAZDAR®
Ink Technologies

7900 Series Corogloss Screen Ink

7900 Series Corogloss is a solvent-based screen ink formulated for transportation graphics, real estate signs, POP, and other outdoor signage applications.

Substrates:
Treated polypropylene and treated polypropylene corrugated plastic with substrates having a minimum surface treatment level of 45 dynes per cm.

End Uses:
Transportation graphics, real-estate, POP and other outdoor signage.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
79LF10	Primrose Yellow
79LF11	Lemon Yellow
79LF12	Medium Yellow
79LF13	Emerald Green
79LF18	Scarlet Red
79LF20	Brilliant Orange
7919	Fire Red
7921	Peacock Blue
7922	Ultra Blue
7927	Mixing/Overprint Clear
7945	Forest Green
7952	Opaque Black
7955	Brilliant Blue
7975	Super Opaque White

Single Pigment Toners
7980	Yellow Toner
7981	Orange Toner
7982	Carmine Toner
7983	Magenta Toner
7984	Maroon Toner
7985	Green Toner
7986	Blue Toner (GS)
7987	Blue Toner (RS)
7988	Violet Toner

Pantone Matching System® Base Colors
7958	Tinting White
7959	Tinting Black
7960	Orange
7961	Yellow
7962	Warm Red
7963	Rubine Red
7964	Rhodamine Red
7965	Purple
7966	Violet
7967	Reflex Blue
7968	Process Blue
7969	Green

Halftone Colors
79HTEX	Halftone Extender Base
79HTB	Halftone Blue
79HTR	Halftone Red
79HTY	Halftone Yellow
79HTBK	Halftone Black

Additives/Thinners
5560	Fast Thinner (not available in quarts)
9050	Retarder Thinner* (not available in quarts)

Cleaners
IMS201	Premium Graphic Screen Wash *(Not available in quarts)*
IMS301	Premium Graphic Press Wash *(Not available in quarts)*

Color Card
Color Card Conventional: CARD375
Special Effects Color Card: CARDSPL

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

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

9700 Series All Purpose Screen Ink

9700 Series All Purpose Screen Ink is a high gloss, solvent-based screen ink formulated to perform on a wide variety of substrates, such as paper, card stock, polystyrene, vinyl, Tyvek®, coated polyester, rigid vinyl, acrylic and many synthetic paper stocks. 9700 Series is for indoor and outdoor POP advertising and display applications.

Substrates:
Styrene, coated paper and card stock, rigid vinyl, synthetic stocks and plastics

End Uses:
Indoor and outdoor POP advertising and display applications requiring two to three years durability

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
97LF10	Primrose Yellow
97LF11	Lemon Yellow
97LF12	Medium Yellow
97LF13	Emerald Green
97LF18	Scarlet Red
9719	Fire Red
97LF20	Brilliant Orange
9721	Peacock Blue
9722	Ultra Blue
9724	Black
9727	Mixing/Overprint Clear
9775	Super Opaque White

Pantone Matching System® Base Colors
9758	Tinting White
9759	Tinting Black
9760	Orange
9761	Yellow
9762	Warm Red
9763	Rubine Red
9764	Rhodamine Red
9765	Purple
9766	Violet
9767	Reflex Blue
9768	Process Blue
9769	Green

Halftone Colors
97HTB	Halftone Blue
97HTBK	Halftone Black
97HTR	Halftone Red
97HTEX	Halftone Extender Base
97HTY	Halftone Yellow

Transparents
97PB12	Trans Medium Yellow
97PB18	Trans Red
97PB60	Stop Sign Red

Toners
9780	Yellow Toner	9785	Green Toner
9781	Orange Toner	9786	Blue Toner (GS)
9782	Carmine Toner	9787	Blue Toner (RS)
9783	Magenta Toner	9788	Violet Toner
9784	Maroon Toner	9789	Red Toner

Additives/Extenders/Thinners
9731	Retarder (gallons only)
9748	Flatting Paste
NB72	Catalyst (quarts only)
NB80	Adhesion Promoter (quarts only)
RE180	Thinner
RE185	Fast Thinner

Cleaners
IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card Conventional: CARD375

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

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

2700 Series AquaSafe Water-Based All Purpose Gloss Screen Ink

AquaSafe 2700 Series All Purpose Screen Ink is a water-based ink that produces a glossy ink film, offers good weather resistance and is flexible enough for vacuum forming.

Substrates:
Coated paper, cardboard, pressure-sensitive vinyl, top-coated polyester, static-cling, polycarbonate, some coated metals and styrene

End Uses:
POP displays.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
2710   Primrose Yellow
2711   Lemon Yellow
2712   Medium Yellow
2713   Emerald Green
2718   Scarlet Red
2719   Fire Red
2720   Brilliant Orange
2721   Peacock Blue
2722   Ultra Blue
2724   Black
2727   Overprint Clear
2775   Super Opaque White

Toners
2782   Carmine Toner
2783   Magenta Toner
2784   Maroon Toner
2785   Green Toner
2786   Blue Toner (GS)
2787   Blue Toner (RS)
2788   Violet Toner

Additives/Thinners
2748   Flatting Paste
2732   Thinner (gallon only)
RE192   Retarder (gallon only)
AQ58   Aquacat (quart only)

Cleaners
2537   Screen Wash
2738   Heavy Duty Screen Wash
IMS503   Press Wash

Color Card
Color Card Conventional: CARD375

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Decal
Screen Printing Inks

3500 Series UV Durable Graphic Screen Ink

3500 Series UV Screen Ink has been formulated for use on premium pressure sensitive vinyl films intended for exterior applications. It exhibits superior flexibility and elongation, allowing for stretching the printed vinyl film over rivets for fleet graphic applications. The 3500 Series has excellent weatherability and chemical resistance, and may be used on decals that will be thermal diecut and pre-masked.

Substrates:
Premium pressure sensitive vinyls.

End Uses:
Highly flexible and durable pressure sensitive decals for Fleet and Original Equipment Manufacture (OEM).

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
3511	Lemon Yellow
35176	Super Opaque White
35177	Super Opaque Black
35178	High Intensity White
35179	High Intensity Black
3519	Fire Red
3526	Mixing Clear
3529	Overprint Clear
3536	Metallic Mixing Clear
3562	Warm Red
3563	Rubine Red
3564	Rhodamine Red
3565	Purple
3566	Violet
3567	Reflex Blue
3568	Process Blue
3569	Green
3581	Permanent Orange

Blending Toners
35159	Trans Orange Toner
35160	Trans YS Red Toner
35161	Primrose Toner
35162	Yellow (GS) Toner
35163	Yellow (RS) Toner
35164	Medium Yellow Toner
35165	Permanent Orange Toner
35166	Red (YS) Toner
35167	Deep Red Toner
35168	Carmine Toner
35169	Magenta Toner
35170	Maroon Toner
35171	Violet Toner
35172	Green (YS) Toner
35173	Green (BS) Toner
35174	Blue (GS) Toner
35175	Blue (RS) Toner
3533	Permanent Yellow (RS) Toner
3543	Permanent Red Toner
3558	Tinting White Toner
3559	Tinting Black Toner
3561	Yellow Toner (not 5 year durable)
3582	Carmine Toner
3583	Magenta Toner
3584	Maroon Toner
3585	Green Toner
3586	GS Blue Toner
3587	RS Blue Toner
3588	Violet Toner
3589	Red Toner

Standard MTR Halftone Colors
35HTEX	Halftone Extender Base
35HTC	Halftone Cyan
35HTM	Halftone Magenta
35HTY	Halftone Yellow
35HTBK	Halftone Black

Standard MTR G7 Halftone Colors
35140	Halftone Extender Base
35151	Halftone Cyan G7
35152	Halftone Magenta G7
35153	Halftone Yellow G7
35154	Halftone Black G7

Pantone® 871c - 877c Metallic Simulated Colors
66492135	Spl 35 871c Pearl Gold
66493135	Spl 35 872c Pearl Gold
66493235	Spl 35 873c Pearl Gold
66493335	Spl 35 874c Pearl Gold
66493435	Spl 35 875c Pearl Gold
66493535	Spl 35 876c Pearl Gold
67052535	Spl 35 877c Pearl Silver

Reducer
RE305 UV Reducer

Cleaners
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card 3500: CARD35

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

3600 Series UV Decal Screen Ink

3600 Series UV Screen Ink has been formulated for applications on pressure-sensitive decals requiring exceptional performance. 3600 UV Decal Series exhibits excellent exterior durability and chemical resistance. The inks will thermal die-cut and accept pre-mask.

Substrates:
Pressure-sensitive vinyls and print treated polyesters.

End Uses:
For most decal applications in the OEM, product identification, and consumer markets.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
3610 Primrose Yellow
3611 Lemon Yellow
3612 Medium Yellow
3619 Fire Red
3621 Peacock Blue
3626 Mixing Clear
3627 Overprint Clear
3652 Super Opaque Black
3675 Super Opaque White
3678 High Intensity White
3679 High Intensity Black
3698 Bright White

Blending Toners
3680 Yellow Toner
3681 Orange Toner
3682 Carmine Toner
3683 Magenta Toner
3684 Maroon Toner
3685 Green Toner
3686 Blue Toner (GS)
3687 Blue Toner (RS)
3688 Violet Toner
3689 Red Toner

Pantone Matching System® Base Colors
3658 Tinting White
3659 Tinting Black
3661 Yellow
3662 Warm Red
3663 Rubine Red
3664 Rhodamine Red
3665 Purple
3666 Violet
3667 Reflex Blue

3668 Process Blue
3669 Green

Dense LTR Halftone Colors
36120 Halftone Extender Base
36131 Halftone Cyan Dense (LTR)
36132 Halftone Magenta Dense (LTR)
36133 Halftone Yellow Dense (LTR)
36134 Halftone Black Dense (LTR)
36135 Halftone Yellow Dense (RS) (LTR)
36136 Halftone Hi Intensity Black (LTR)

Standard MTR Halftone Colors
36HTC   Halftone Cyan
36HTM   Halftone Magenta
36HTY   Halftone Yellow
36HTBK   Halftone Black
36HTEX   Halftone Extender Base

Dense MTR G7 Halftone Colors
36140 HT Extender Base G7(MTR)
36151 HT Cyan Dense G7(MTR)
36152 HT Magenta Dense G7(MTR)
36153 HT Yellow Dense G7(MTR)
36154 HT Blk Dense G7(MTR)

Pantone® 871c - 877c Metallic Simulated Colors
67330136 Spl 36 871c Pearl Gold
67330236 Spl 36 872c Pearl Gold
67330336 Spl 36 873c Pearl Gold
67330436 Spl 36 874c Pearl Gold
67330536 Spl 36 875c Pearl Gold
67330636 Spl 36 876c Pearl Gold
67330736 Spl 36 877c Pearl Silver

Additives/Reducers
NB80   UV Adhesion Promoter
RE306   UV Reducer
RE308   UV Reducer (Flexibilizer)
CARE59   UV Satin Paste

Cleaners
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Color Card: CARDUV
60/360 Color Card:
Specialty Effects Color Card:CARDSPL
Non-Metallic Pantone® Simulations sheet:

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

GV Series Gloss Vinyl Screen Ink

GV Series Screen Ink has been formulated for printing on vinyl surfaces where a high gloss finish is required. These inks form a positive bond with most vinyl surfaces and will dry to an extremely flexible film which may be vacuum formed. The pigments used in these inks have been carefully selected for fade resistance under outdoor exposure.

Substrates:
Vinyls, polycarbonate, acrylic.

End Uses:
Nameplates, identification panels, vacuum formable with good exterior performance.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
GVLF103	Red
GVLF105	Permanent Red
GV107	Permanent Maroon
GV111	Black
GV112	White
GV122	Opaque White
GVLF124	Orange
GVLF130	Primrose Yellow
GVLF132	Lemon Yellow
GVLF134	Medium Yellow
GVLF142	Emerald Green
GV152	Light Blue
GV157	Royal Blue
GV162	Purple
GV164	Cerise
GV170	Clear Gloss
GV173	Clear Gloss Exterior

Metallic Colors
GV185	Brilliant Pale Gold
GV187	Silver

Transparent Colors
GV110	Transparent Red
GV139	Majestic Yellow
GV149	Permanent Green
GV159	Permanent Blue

Additives/Thinners
VF178	Sharp Printing Compound
VF180	Fast Thinner
VF182	Retarder

Cleaners
IMS201 Premium Graphic Screen Wash
IMS301 Premium Graphic Press Wash

Color Card
Color Card GV: CARDGV

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

VF Series Flat Vinyl Screen Ink

Solvent Inks

VF Series inks are formulated to have excellent adhesion to both rigid and flexible vinyl's and some vinyl coated materials. The inks have excellent printability, opacity, fast drying and non - blocking characteristics. VF is recommended only for interior applications

All colors except VF111 Black may be heat sealed. VF121 Non Arcing Black is used for heat sealing.

Substrates:
Flexible vinyl and some vinyl coated materials.

End Uses:
Binders, shower curtains, vinyl banners and static cling vinyl.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
VFLF103	Brilliant Red
VFLF104	Bright Red
VF106	Carmine Red
VF111	Black
VF112	White
VF114	Brown
VF121	Non Arcing Black
VF122	Opaque White
VFLF124	Orange
VFLF130	Primrose Yellow
VFLF132	Lemon Yellow
VFLF134	Medium Yellow
VFLF146	Cyanine Green
VF152	Light Blue
VF156	Brilliant Ultra Blue
VF159	Permanent Blue
VF162	Purple
VF164	Cerise
VF170	Clear
VF410	Yellow
VF411	Warm Red
VF417	Rubine Red
VF422	Reflex Blue
VF433	Purple
VF440	Process Blue

Thinners/Additives/Extenders
VF175	Extender
VF178	Sharp Printing Compound
VF190	Fast Thinner
VF192	Retarder

Cleaners
IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card VF: CARDVF

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NAZDAR®
Ink Technologies

S2 Series Systems-2 Gloss Vinyl Screen Ink

System-2 Series ink is a high gloss, solvent-based screen ink formulated for optimum performance on pressure-sensitive vinyls and top coated polyesters used for decal applications.

Substrates:
Pressure-sensitive vinyl and print-treated polyester.

End Uses:
Pressure-sensitive decals recommended for exterior exposure.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
S2LF10	Primrose Yellow
S2LF11	Lemon Yellow
S2LF12	Medium Yellow
S2LF13	Emerald Green
S219	Fire Red
S221	Peacock Blue
S224	Black
S250	Barrier White
S275	Super Opaque White

Pantone Matching System® Base Colors
S226	Mixing Clear
S258	Tinting White
S259	Tinting Black
S260	Orange
S261	Yellow
S262	Warm Red
S263	Rubine Red
S264	Rhodamine Red
S265	Purple
S266	Violet
S267	Reflex Blue
S268	Process Blue
S269	Green

Halftone Colors
S2HTEX	Halftone Extender Base
S2HTB	Halftone Blue
S2HTR	Halftone Red
S2HTY	Halftone Yellow
S2HTBK	Halftone Black

Transparent Colors
S2PB10	Trans Primrose Yellow
S2PB12	Trans Medium Yellow
S2PB13	Trans Green
S2PB18	Trans Red
S2PB20	Trans Orange
S2PB22	Trans Blue
S2PB33	Trans Purple
S2PB60	Stop Sign Red

Additives/Reducers
S248	Flatting Paste (quarts available)
S230	Thinner
S231	Retarder
CARE53	Gel Retarder (quarts available)

Cleaners
IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card Conventional: CARD375 & CARDIGL

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

9600 Series Polyester Screen Ink

Solvent Inks

9600 Series Screen Ink is designed primarily for printing on untreated polyester films. The ink will dry to a film exhibiting good gloss and flexibility with the exception of 9652 Super Opaque Black, which exhibits a matte, but flexible ink film.

9600 Series may be catalyzed with NB72 Catalyst or NB80 Adhesion Promoter for adhesion to a diverse range of substrates including polyester, some rubber, polycarbonate, melamine plastics, leather and some coated and uncoated metals.

When printing 9600 Series on polycarbonate for insert-mold decorating applications, up to 5% by weight addition of NB72 will provide optimum performance.

Substrates:
Untreated polyester, polyester coated surfaces, some treated or top coated polyester films and polycarbonate.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
96LF10	Primrose Yellow
96LF11	Lemon Yellow
96LF12	Medium Yellow
96LF13	Emerald Green
9619	Fire Red
96LF20	Brilliant Orange
9621	Peacock Blue
9622	Ultra Blue
9624	Black
9625	White
9627	Mixing/Overprint Clear
9650	Barrier White
9652	Flat Super Opaque Black

Transparent Colors
96PB10	Trans Primrose Yellow
96PB12	Trans Medium Yellow
96PB13	Trans Green
96PB18	Trans Red
96PB20	Trans Orange
96PB22	Trans Blue
96PB33	Trans Purple
96PB60	Stop Sign Red
96410	Yellow
96411	Warm Red
96417	Rubine Red
96418	Rhodamine Red
96433	Purple
96440	Process Blue
96441	Green

Halftone Colors
96HTEX	Halftone Extender Base
96HTB	Halftone Blue
96HTR	Halftone Red
96HTY	Halftone Yellow
96HTBK	Halftone Black

Additives/Thinners
9630	Thinner
9631	Retarder
9648	Flatting Paste
NB72	Catalyst (Quarts Only)
NB80	UV Adhesion Promoter

Cleaners
9637	Screen Wash
IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card Conventional: CARD375 & CARDIGL

All of the colors above are non-bleeding. For maximum durability, use colors at full strength as supplied.

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NAZDAR®
Ink Technologies

Special Doming Repelling Clear

UV Inks

657101PS Special Doming Repelling Clear is a UV curable ink for screen printing around areas where a doming clear is going to be applied to limit the spread of the doming clear.

Clean-Up

IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

UV Inks

Doming Receptive Clear

652663PS Doming Receptive Clear is a UV curable ink for screen printing on areas where a doming clear is going to be applied, providing a barrier coat between the doming clear and the substrate. The application of 652663PS is necessary in cases where the doming clear does not adhere to the substrate or does not wet the substrate.

Cleaners

IMS203   Economy Graphic Screen Wash *(Not available in quarts)*
IMS207C   Graphic Recirculating Wash *(Not available in quarts)*
IMS301   Premium Graphic Press Wash *(Not available in quarts)*

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Metal Decorating
Screen Printing Inks
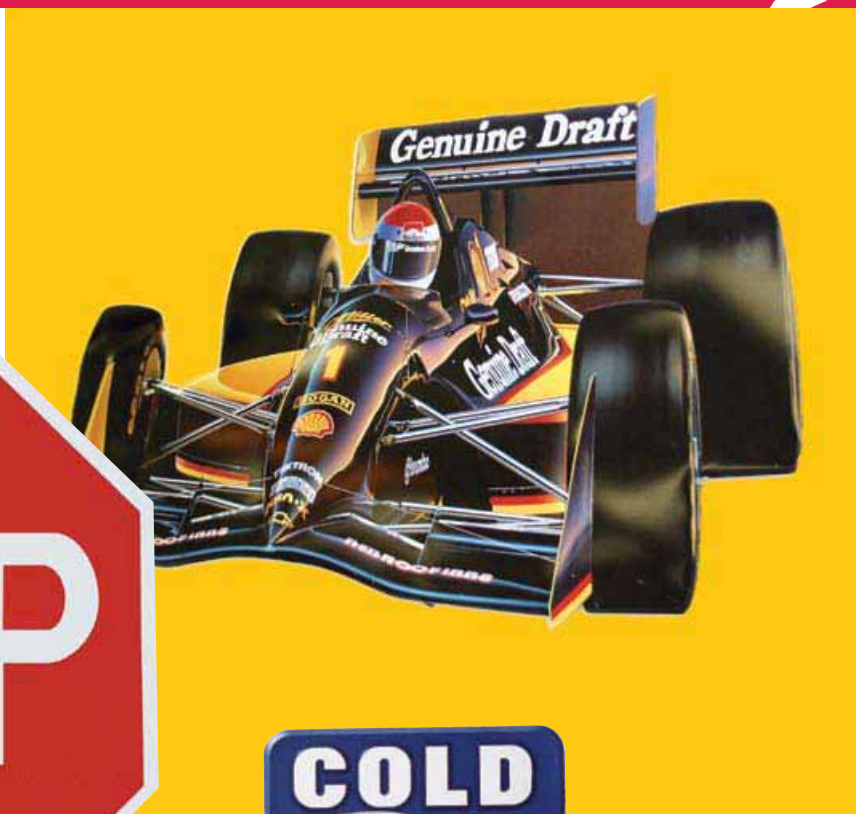
Metal Decorating Inks

Solvent Inks

59000 Series Enamel Plus Gloss Screen Ink

59000 Series Enamel Plus Gloss Screen Ink is a solvent-based enamel ink formulated to screen print on a wide range of hard-to-adhere-to surfaces such as glass, metal, wood and some plastics for outdoor signs and displays.

Substrates:
Glass, metal, wood and some hard plastics.

End Uses:
Outdoor signs and displays.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
59LF102	Fire Red
59106	Scarlet Red
59111	Black
59112	White
59114	Medium Brown
59120	Base
59122	Super Opaque White
59LF124	Brilliant Orange
59LF130	Primrose Yellow
59LF132	Lemon Yellow
59LF134	Medium Yellow
59135	Gloss Coating Varnish
59140	Overprint Clear
59LF142	Emerald Green
59LF148	Medium Green
59152	Peacock Blue
59156	Ultra Blue
59158	Dark Blue
59172	Flat Coating Varnish
59191	Flat Black
59192	Flat White
59204	Bright Red
59410	Yellow
59411	Warm Red
59417	Rubine Red
59418	Rhodamine Red
59422	Reflex Blue
59433	Purple
59440	Process Blue
59441	Green
59660	Stop Sign Red

Halftone Colors
59166	Halftone Black
59167	Halftone Blue
59LF168	Halftone Yellow
59169	Halftone Magenta
59170	Halftone Clear

Transparent Colors
59610	Trans Primrose Yellow
59612	Trans Medium Yellow
59613	Trans Green
59618	Trans Red
59620	Trans Orange
59622	Trans Blue
59628	Trans Gold
59633	Trans Purple

Additives/Reducers
59000	Thinning Varnish
59118	Flatting Paste
5560	Fast Thinner *(Not available in quarts)*
9050	Retarder *(Not available in quarts)*

Cleaners
IMS202	Universal Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card 59000: CARD59

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

An Ink That's Right For Every Job.   *U.S.A. Phone: 1-800-767-9942*

8900 Series SuperSet Thermo-Set Screen Ink

8900 Series SuperSet Thermo-Set Screen Ink is a high solids, high gloss solvent-based screen ink. A single component, cross linked product, 8900 Series is formulated for printing on pre-coated metal surfaces. Properly cured, 8900 Series exhibits excellent resistance to many solvents, chemicals, humidity and abrasion. 8900 Series is designed to provide maximum flexibility and intercoat adhesion.

Substrates:
Pre-coated metal substrates; coatings include enamel, polyester, acrylic, vinyl and epoxy.

End Uses:
Exterior signage, nameplates and POP display advertising.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

89LF10	Primrose Yellow	8927	Overprint Clear
89LF11	Lemon Yellow	8927RC	Roller Coating Clear
89LF12	Medium Yellow	8975	Super Opaque White
89LF13	Emerald Green	89410	Yellow
89LF18	Scarlet Red	89411	Warm Red
89LF19	Fire Red	89417	Rubine Red
89LF20	Brilliant Orange	89418	Rhodamine Red
8921	Peacock Blue	89422	Reflex Blue
8922	Ultra Blue	89433	Purple
8924	Black	89440	Process Blue
8925	White	89441	Green
8926	Mixing Clear	8989	Red Toner

Additives/Thinners
9050	Retarder Thinner
8948	Flatting Paste

Cleaners
IMS202	Universal Graphic Screen Wash
IMS301	Premium Graphic Press Wash

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Container
Screen Printing Inks

2300 Series
UV/UV-LED Screen Ink

The 2300 Series UV / UV-LED Screen Ink has been formulated to cure with UV-LED with peak wavelength emission of 395 nanometers and more traditional UV mercury vapor curing system. The ink is designed for printing on various glass and plastic bottles used in the packaging of cosmetics, household chemicals and other similar applications. The ink has been formulated to meet the processing requirements of the container printing industry, such as adhesion to commonly used plastics, opacity, resistance to commonly used chemicals, and speed of cure.

Primary Substrates:
Glass, Treated high density polyethylene (HDPE) and Polyethylene terephthalate (PET)

Additional Substrates
Treated low density polyethylene (LDPE), Treated polypropylene (PP)

The surface tension should be at or above 44 dynes/cm.

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.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
2310	Primrose Yellow
2312	Medium Yellow
2319	Fire Red
2326	Mixing Clear
2378	High Intensity White
2379	High Intensity Black

Pantone Matching System® Base Colors
23358	Tinting White
23359	Tinting Black
23360	Orange
23361	Yellow
23362	Warm Red
23363	Rubine Red
23364	Phodamine Red
23365	Purple
23366	Violet
23367	Reflex Blue
23368	Process Blue
23369	Green

Additives/Reducers
CARE69	UV Hardener
CARE106	UV Catalyst / Charger
NB23	Catalyst

Clean-Up
|	
IMS203	Economy Graphic Screen Wash
IMS206	Auto Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
UV Color Card: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

N3100 Series
UV Polyethylene Container Screen Ink

N3100 Series is a UV curable screen ink designed for high speed printing of treated polyethylene bottles. Properly cured, these inks will exhibit excellent adhesion, as well as superior resistance to solvents, chemicals and other products typically packaged in polyethylene and polypropylene containers.

Substrates:
Treated polyethylene and polypropylene containers.

End Uses:
Cosmetic, hair products, chemical, and specialty product container packaging.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
N3110   Primrose Yellow
N3111   Lemon Yellow
N3112   Medium Yellow
N3119   Fire Red
N3120   Brilliant Orange
N3126   Mixing Clear
N3150   Barrier White
N3152   Super Opaque Black
N3175   Super Opaque White
N3176   HB High Intensity White (formerly H3178)
N3177   HB Super Opaque Black (formerly H3152)
N3178   High Intensity White

Single Pigment Toners
N3180   Yellow Toner
N3182   Carmine Toner
N3183   Magenta Toner
N3184   Maroon Toner
N3185   Green Toner
N3186   Blue Toner (GS)
N3187   Blue Toner (RS)
N3188   Violet Toner

Pantone Matching System® Base Colors
N3158   Tinting White
N3159   Tinting Black
N3161   Yellow
N3162   Warm Red
N3163   Rubine Red
N3164   Rhodamine Red
N3165   Purple
N3166   Violet
N3167   Reflex Blue

N3168   Process Blue
N3169   Green

Additives/Reducers
NB80   UV Adhesion Promoter (quarts only)
RE301   UV Reducer
CARE68   Adhesion Promoter
60001592CR   Spl N31 Adhesion Promoter

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Curable Screen Ink: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Versacon® 4100 Series Versatile Container UV Screen Ink
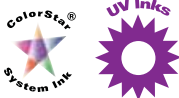
Versacon® 4100 Screen Ink is specifically designed for high speed printing of a variety of plastic containers. Properly cured, these inks exhibit excellent adhesion and scuff resistance.

Due to the variety of products and chemicals which are packaged in containers printed with the 4100 inks, testing for end use application is strongly advised.

Versacon® 4100 Series screen printing ink exhibits a high gloss finish in all colors.

Substrates:
Treated polyethylene (HDPE, LDPE), polyethylene terephthalate (PET), polycarbonate (PC), treated polypropylene (PP)

End Uses:
Containers for cosmetics, hair products, chemicals and specialty products.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
4110	Primrose Yellow
4112	Medium Yellow
4119	Fire Red
4126	Mixing Clear
4176	HB High Intensity White
4177	HB High Intensity Black
4178	High Intensity White
4179	High Intensity Black
4198	Bright White

Halftone Colors
4190	Extender Base
4191	Cyan
4192	Magenta
4193	Yellow
4194	Black

Pantone Matching System® Base Colors
41358	Tinting White
41359	Tinting Black
41360	Orange
41361	Yellow
41362	Warm Red
41363	Rubine Red
41364	Rhodamine Red
41365	Purple
41366	Violet
41367	Reflex Blue
41368	Process Blue
41369	Green

Additives/Reducers
RE310	UV Reducer
CARE68	Adhesion Promoter
CARE69	UV Hardener

Cleaners
IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card UV: CARDUV

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Versacon® Classic 5100 Series Container Screen Ink

Versacon® Classic 5100 Series Screen Ink is a solvent-based ink system for container printing and exhibits adhesion to various plastics, glass and some metals. The 5100 Series exhibits excellent resistance to a wide range of solvents and chemicals used in cosmetics, personal care and household cleaning applications. As a high gloss, fast drying, single part system, the 5100 Series exhibits good adhesion immediately upon drying, while final properties will be achieved in 5-7 days.

Substrates:

Treated polyethylene and polypropylene, glass and some metals

Note: Due to variations in the type and manufacture of plastics, glass and metals, pre-testing must be done prior to any production run. Adhesion to the substrate does not guarantee satisfactory results with other end-use specifications.

Product Range:

Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

5110	Primrose Yellow
5112	Medium Yellow
5119	Fire Red
5120	Brilliant Orange
5126	Mixing Clear
5152	Super Opaque Black
5175	Super Opaque White

Single Pigment Toners

5182	Carmine Toner
5183	Magenta Toner
5184	Maroon Toner
5185	Green Toner
5186	Blue Toner (GS)
5187	Blue Toner (RS)
5188	Violet Toner

Pantone Matching System® Base Colors

51358	Tinting White
51359	Tinting Black
51360	Orange
51361	Yellow
51362	Warm Red
51363	Rubine Red
51364	Rhodamine Red
51365	Purple
51366	Violet
51367	Reflex Blue
51368	Process Blue
51369	Green

Metallic Effect Colors Colors

51185	Gold
51186	Copper
51187	Silver

Additives

RE212	Thinner (liters only)
RE185	Thinner
CARE22	Flow Agent
CARE53	Gel Retarder
SIPI414	Thickening Powder (pounds only)
V5070	Catalyst (liters only)

Clean-Up

IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PA Series Poly-All Screen Ink

PA Series Poly-All Screen Ink has been designed specifically for screen printing on untreated polypropylene. Its unique formulation makes pretreatment such as flaming or surface coating unnecessary. Poly-All will perform satisfactorily on most polypropylene surface. However, since there is considerable variation in the formulation of substrate materials, the user must always pretest the specific substrate for adhesion and product resistance prior to a production run. PA Series inks exhibit a semi-gloss finish. When thoroughly dried, PA Series ink has very good flexibility and durability. Poly-All has proven successful in some pad printing applications.

Substrates:
Untreated polypropylene.

End Uses:
Containers, mugs, cups, specialty ad products.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
PA01	Clear
PA10	White
PA11	Extra Opaque White
PA21	Yellow
PA26	Orange
PA30	Emerald Green
PA43	Royal Blue
PA46	Permanent Blue
PA49	Purple
PA52	Bright Red
PA53	Deep Red
PA54	Maroon
PA60	Brown
PA70	Black

Mixing Colors
PA310	Green
PA440	Process Blue
PA450	Reflex Blue
PA500	Warm Red
PA510	Rubine Red
PA570	Rhodamine Red
PA580	Magenta

Additives/Reducers
PA7	Thinner
PA8	Retarder
FP460	Flow Promoter

Cleaners
IMS201	Premium Graphic Screen Wash	*(Not available in quarts)*
IMS202	Universal Graphic Screen Wash	
IMS301	Premium Graphic Press Wash	*(Not available in quarts)*

Color Card
Color Card Poly-All: CARDPA

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Nameplate
Screen Printing Inks

NamePlate Inks

2400 Series UV-LED Screen Ink

The 2400 Series UV-LED Screen Ink has been formulated to cure with a LED curing system with wavelength emission of 395 nanometers and minimum wattage output of 4 watts. The ink is designed for second surface printing on polycarbonate and polyester used as membrane overlays where the lamination of pressure sensitive adhesive directly to the ink film may be necessary. The ink has been formulated to meet the processing requirements of membrane overlay applications such as compatibility with most acrylic adhesives, flexibility for embossing, opacity, ink to ink adhesion and speed of cure.

Substrates:
Polycarbonate and some top coated polyester
(UV ink receptive primer)

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

These colors are not recommended in applications that require high heat during processing.

Standard Printing Colors
2410	Primrose Yellow
2419*	Fire Red
2426	Mixing Clear
2478	High Intensity White
2479	High Intensity Black
24PB18	Transparent Red (BS)

Pantone Matching System® Base Colors
24358	Tinting White
24359	Tinting Black
24360	Orange
24361	Yellow
24362*	Warm Red
24363	Rubine Red
24364	Rhodamine Red
24365	Purple
24366	Violet
24367	Reflex Blue
24368	Process Blue
24369	Green

Halogen-Free Colors (only in kilograms)
24200	Halogen-Free Mixing Clear
24201	Halogen-Free Tinting Black
24202	Halogen-Free Tinting White
24205	Halogen-Free Super Opaque Black
24206	Halogen-Free Super Opaque White
24210	Halogen-Free Yellow
24211	Halogen-Free Orange
24212	Halogen-Free Red
24213	Halogen-Free Carmine
24214	Halogen-Free Magenta
24215	Halogen-Free Maroon
24216	Halogen-Free Violet
24217	Halogen-Free Blue RS
24218	Halogen-Free Blue GS
24219	Halogen-Free Green

Additives/Reducers
RE310	UV Reducer
NB80	UV Adhesion Promoter

Cleaners
IMS203	Economy Graphic Screen Wash
IMS206	Auto Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
UV Color Card: CARDUV
Halogen-Free Color Presenter: CARDHF

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

3400 Series UV Nameplate Screen Ink

The 3400 Series Nameplate UV Screen Ink has been formulated to meet the processing requirements of the membrane overlay market; including compatibility with most standard transfer adhesives, flexibility, opacity, ink to ink adhesion, and speed of cure. The 3400 Series is designed for second surface printing on polycarbonate and polyester used as membrane overlays where the lamination of pressure sensitive adhesive directly to the ink film may be necessary.

The 3400 Series with the addition of 5% by weight NB80 UV Adhesion Promoter may also be printed over HP Indigo® digital offset prints.

Substrates:

Polycarbonate, some top coated polyester (UV ink receptive primer).

Product Range:

Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

3411	Lemon Yellow*	3477	Super Opaque Black
3419	Fire Red*	3479	High Intensity Black
3420	Brilliant Orange*	3496	Jet Black
3478	High Intensity White	3498	Bright White
34PB24	Deadfront Black	3499	Black Concentrate

Toners

3480	Yellow Toner (GS)	3487	Blue Toner (RS)
3481	Orange Toner	3488	Violet Toner
3482	Carmine Toner	3489	Red Toner
3483	Magenta Toner	34PB12	Medium Yellow (RS)
3484	Maroon Toner	34PB18	Red (BS)
3485	Green Toner	34PB24	Dead Front Black
3486	Blue Toner (GS)	34PB60	Red (YS)

Pantone Matching System® Base Colors

3426	Mixing Clear	3464	Rhodamine Red
3458	Tinting White	3465	Purple
3459	Tinting Black	3466	Violet
3461	Yellow*	3467	Reflex Blue
3462	Warm Red*	3468	Process Blue
3463	Rubine Red	3469	Green

Halogen-Free Colors

34200	Mixing Clear	34213	Carmine
34201	Tinting Black	34214	Magenta
34202	Tinting White	34215	Maroon
34205	Super Opaque Black	34216	Violet
34206	Super Opaque White	34217	Blue RS
34210	Yellow	34218	Blue GS
34211	Orange	34219	Green
34212	Red		

Halftone Colors

3490	Halftone Extender Base	34103	Halftone Yellow Dense
34101	Halftone Cyan Dense	34104	Halftone Black Dense
34102	Halftone Magenta Dense		

Clears for Selective Texturing**

NSC40	UV Air Tex Clear Fine	NSC51	UV Air Tex Clear
NSC41	UV Air Tex Clear	NSC52	UV Air Tex Clear
NSC42C	Nitrogen TC Coarse	PSPC27	Very Coarse Nitrogen TC
NSC42F	Nitrogen TC Fine	PSPC27G	Coarse Nitrogen TC
NSC43	Lens Clear	PSPC27H	Very Fine Nitrogen TC
NSC47	UV Air Tex Very Fine	PSPC27T	Fine Nitrogen TC
NSC48	UV Air Tex Medium	PSPC27TS	Satin Nitrogen TC
NSC49	UV Air Tex Coarse	PSPC27Y	Fine Nitrogen TC
NSC50	UV Air Tex Very Coarse		

Pantone® 871c - 877c Metallic Simulated Colors

67327234	Spl 34 871c Pearl Gold
67327334	Spl 34 872c Pearl Gold
67327434	Spl 34 873c Pearl Gold
67327534	Spl 34 874c Pearl Gold
67327634	Spl 34 875c Pearl Gold
67327734	Spl 34 876c Pearl Gold
67327834	Spl 34 877c Pearl Silver

Additives/Reducers

| RE304 | UV Reducer | NB80 | UV Adhesion Promoter |

Cleaners

IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card

Color Card 3400: CARD34 & CARDTC

Not recommended for high heat processing.
** *Refer to the Technical Data Sheet for detailed information on these inks. These clears are for first or top surface printing only.*

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC UV Crystal Clear Transparent Inks

NSC UV Crystal Clear Transparent Screen Ink has been formulated to print on polycarbonate and some pre-treated polyester substrates commonly used as membrane overlays. These inks exhibit excellent clarity with very little haze, making them ideal for use as transparent window colors.

NSC UV Crystal Clear Transparent inks may be printed top or sub surface.

Substrates:
Polycarbonate and some pre-treated polyester (UV ink receptive primer).

End Uses:
For first or second surface transparent windows on polycarbonate and some pretreated polyesters used as a membrane overlay.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
NSC29	UV Crystal Mixing Clear
NSC30	UV Crystal Clear Yellow (GS)
NSC31	UV Crystal Clear Yellow (RS)
NSC32	UV Crystal Clear Red (BS)
NSC33	UV Crystal Clear Red (YS)
NSC34	UV Crystal Clear Magenta
NSC35	UV Crystal Clear Violet
NSC36	UV Crystal Clear Blue (GS)
NSC37	UV Crystal Clear Blue (RS)
NSC38	UV Crystal Clear Green
NSC39	UV Crystal Clear Black

Additives/Reducers
CARE 65	Flow Agent
RE310	UV Reducer

Cleaners
IMS203	Economy Graphic Screen Wash
IMS 207C	Graphic Recirculating Wash
IMS 301	Premium Graphic Press Wash

Color Card
Color Card NSC Crystal Clear: CARDCC

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC40 UV Air Texture Clear Fine Screen Ink

The NSC40 UV Air Texture Clear Fine Screen Ink is specifically designed to give a decorative texture effect on first surface polycarbonate used for membrane overlay applications. Texture may vary from fine to very fine depending on the screen mesh. Gloss may also vary depending on screen mesh and substrate.

Substrates:
Polycarbonate and some pre-treated polyester.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE302	UV Reducer

Cleaners
IMS203	Economy Graphic Screen Wash
IMS207C	Graphic Recirculating Wash
IMS301	Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC

NNote: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC41 UV Air Texture Clear Screen Ink

NSC41 UV Air Texture Clear is specifically designed to give a decorative texture effect on first surface polycarbonate and some pre-treated polyester used for membrane overlay applications. Texture may vary from medium to very fine depending on the screen mesh. Gloss may also vary depending on screen mesh and substrate.

Substrates:
Polycarbonate and some pre-treated polyester.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE302   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC42C & NSC42F Nitrogen Texture Clear UV Screen Ink

NSC42C Nitrogen TC Coarse and NSC42F Nitrogen TC Fine UV Screen Inks are specifically designed for use with germicidal lamps in an inert atmosphere to give a decorative textured effect on first surface polycarbonate for membrane overlay applications.

Substrates:
Polycarbonate

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE307   Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC43 UV Lens Clear Screen Ink

NSC43 UV Lens Clear Screen Ink is specifically formulated to print over textured polycarbonate and polyesters used as membrane overlays to create a clear window.

NSC43 is designed for top or first surface printing and cures to a hard, mar-resistant finish.

Substrates:
Textured Polycarbonate and some polyesters

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE304   Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC44 High Intensity White UV Screen Ink

NSC44 High Intensity White UV Screen Ink (Part A) with the addition of 5% by weight NB80 Adhesion Promoter (Part B) is designed to exhibit excellent adhesion to HP Indigo® digital offset prints.

NSC44 is printed as a background opaque white over HP Indigo® digital offset sheets printed on the second surface.

Substrates:
Pre-treated transparent polycarbonate, polyester and vinyl films.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE312   Reducer
RE308   UV Reducer
NB80   UV Adhesion Promoter (quarts only)

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NSC47, NSC48, NSC49, NSC50 UV Air Texture Screen Ink

UV Air Texture Screen Inks are designed to give a clear decorative texture effect on first surface polycarbonate and some pre-treated polyester, used for membrane overlay applications. Textures are available from very fine to very coarse (See Packaging).

NSC47, NSC48, NSC49 and NSC50 UV Air Texture screen inks may be inter-mixed with each other to achieve a desired texture. Mesh counts must be selected for the coarsest texture used in the mixture.

An inert (nitrogen) atmosphere curing unit is not necessary for all Nazdar texture clears designated as "UV Air Texture."

Substrates:
Polycarbonate and some pre-treated polyester

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Stock#	Description	Mesh Count
NSC47	UV Air Tex Very Fine	200 - 355 tpi (80 - 140 tpcm)
NSC48	UV Air Tex Medium	200 - 305 tpi (80 - 120 tpcm)
NSC49	UV Air Tex Coarse	200 - 260 tpi (80 - 100 tpcm)
NSC50	UV Air Tex Very Coarse	160 - 200 tpi (55 - 80 tpcm)

Additives/Reducers
RE301   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC
NSC UV Air Texture Clears Color Card: LIT0217

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PSPC Series Nitrogen Texture Overprint Clear UV Screen Inks

PSPC Nitrogen Texture Overprint Clear UV Screen Inks have been specifically formulated for top or first surface printing on polycarbonate and some top coated or print treated polyester used in membrane overlay applications. These inks are not recommended for hard coated polycarbonate and polyester surfaces.

These inks will produce a variety of textures when cured in an inert atmosphere using a germicidal lamp. The appearance of the texture will depend on ink deposit, nitrogen flow and belt speed. Some of the inks may be mixed together to achieve different textures. Please refer to the chart on the last page to determine ink compatibility.

Properly cured, these inks will exhibit excellent adhesion as well as solvent, moisture and mar resistance.

Substrates:
Polycarbonate and some pre-treated or primed polyesters

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Stock Number	Standard Textures	Compatible With
PSPC27	Very Coarse Nitrogen TC	PSPC27T
PSPC27H*	Very Fine Nitrogen TC	
PSPC27T	Fine Nitrogen TC	PSPC27
PSPC27Y*	Fine Nitrogen TC	

Notes:
* These clears contain N-vinyl-2-Pyrrolidone (NVP), trade name V-Pyrol®. These clears are intermixable with each other and with other PSPC clears.

Additives/Reducers
RE301   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Color Card
UV Texture Clears Color Card: CARDTC

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

8800 Series Color-Vue Membrane Screen Ink

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.

End Uses:
Backlit panels, nomenclature and instruction panels, membrane overlays.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
88LF10	Primrose Yellow
88LF11	Lemon Yellow
88LF12	Medium Yellow
88LF13	Emerald Green
8819	Fire Red
88LF20	Brilliant Orange
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
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

Pantone Matching System® Base Colors
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

Single Pigment Toners
8881	Orange Toner
8882	Carmine Toner
8883	Magenta Toner
8884	Maroon Toner
8886	Blue Toner (GS)
8888	Violet Toner

Additives/Thinners
8848	Flatting Paste
RE180	Thinner
RE183	Retarder

Cleaners
IMS201	Premium Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Color Card Conventional: CARD375

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

60028546WB Waterbase Peelable Mask

60028546WB Waterbase Peelable Mask is a water-soluble, screen-printable clear for use as a temporary protective coating on polycarbonate and coated metal substrates. The dried coating can be easily peeled away from the substrate.

Substrates:
Polycarbonate and coated metal

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE180	Thinner

Cleaners
2537	Screen Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

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Industrial Inks
ADE Series Epoxy Screen Ink

ADE Epoxy Screen Ink has been formulated with high quality epoxy resins for excellent adhesion to metals, glass and a wide range of hard-to-print substrates. ADE Series is ideal for electronic and industrial applications and provides outstanding solvent, chemical and abrasion resistance.

ADE is a two-part ink and must be initiated with a catalyst prior to use. ADE ink exhibits a high gloss finish.

ADE Series is for indoor applications only.

Substrates:
Epoxy, melamine, treated polyethylene, treated polypropylene, metals, glass, PC boards.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

*These colors are not recommended for baking temperatures over 250ºF (121ºC). **One gallon minimum blend.

Standard Printing Colors

*ADE10	Primrose Yellow	ADE26	Mixing/Metallic Clear
*ADE11	Lemon Yellow**	ADE52	Opaque Black
*ADE12	Medium Yellow	ADE62	Warm Red
ADE15	Yellow (GS)	ADE67	Reflex Blue
ADE16	Yellow (RS)	ADE75	Opaque White
ADE19	Fire Red	ADE78	High Intensity White
*ADE20	Brilliant Orange	ADE114	Brown
ADE22	Ultra Blue**		

Mixing Colors

*ADE80	Process Yellow
ADE82	Carmine Red
ADE83	Magenta
ADE85	Green
ADE86	Blue (GS)
ADE87	Blue (RS)
ADE88	Violet
ADE89	Red Toner
ADE90	Heavy Body Base
ADE435	Regal Blue
*ADE456	HT Process Blue
ADE503	Permanent Red Y
ADE478	Permanent Cerise
ADE586	Permanent Process Red

Pantone Matching System® Base Colors

ADE358	Tinting White
ADE359	Tinting Black
ADE360	Orange
*ADE361	Yellow
ADE362	Warm Red
ADE363	Rubine Red
ADE364	Rhodamine Red
ADE365	Purple
ADE366	Violet
ADE367	Reflex Blue
ADE368	Process Blue
ADE369	Green

Halogen-Free Colors

ADE200	Mixing Clear
ADE201	Tinting Black
ADE202	Tinting White
ADE205	Super Opaque Black
ADE206	Super Opaque White
ADE210	Yellow
ADE211	Orange
ADE212	Red
ADE213	Carmine
ADE214	Magenta
ADE215	Maroon
ADE216	Violet
ADE217	Blue RS
ADE218	Blue GS
ADE219	Green

Extenders/Additives/Reducer or Thinners

ADE677	Catalyst (available quarts only)
ADE678	Glass Catalyst (available quarts only)
ADE679	Snowboard Catalyst (available quarts only)
CARE8	Flow Control Agent
RE182	Retarder
RE189	Slow Thinner
RE190	Thinner

Cleaners
IMS201 Premium Graphic Screen Wash
IMS301 Premium Graphic Press Wash

Color Card
Conventional Color Card: CARD375

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

6100 Series Fast Dry Enamel Ink

6100 Series Fast Dry Enamel Screen Ink is a solvent-based ink developed for use on flame-treated polyethylene containers, fiber drums and other hard-to-adhere-to surfaces. 6100 Series has a built-in catalyst that accelerates curing and offers excellent resistance to soaps and detergents.

Substrates:
Fiber drums and treated polyethylene containers.

End Uses:
Containers and packaging materials.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors
6110	Primrose Yellow
6111	Lemon Yellow
6112	Medium Yellow
6119	Fire Red
6120	Brilliant Orange
6121	Peacock Blue
6122	Ultra Blue
6152	Super Opaque Black
6175	Super Opaque White
6127	Overprint Clear

Pantone Matching System® Base Colors
6126	Mixing Clear
6158	Tinting White
6159	Tinting Black
6160	Orange
6161	Yellow
6162	Warm Red
6163	Rubine Red
6164	Rhodamine Red
6165	Purple
6166	Violet
6167	Reflex Blue
6168	Process Blue
6169	Green

Thinners/Retarders
5560	Fast Thinner
9050	Retarder

Cleaners
IMS202	Universal Graphic Screen Wash
2555	Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Conventional Color Card: CARD375

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

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8400 Series CVIM Conventional Insert Mold Decorating Screen Ink

Solvent Inks

8400 Series CVIM Screen Ink has been formulated to meet requirements of the insert mold decorating (IMD) process. 8400 has flexibility for forming and post-form trimming, resistance to wash out during the molding process and adhesion to polycarbonate injection mold resin. Overprinting the 8400 with the 8449 Tie-Coat conventional screen ink promotes adhesion to other injection resins such as ABS, PMMA and PVC.

8400 Series ink is for second surface printing on polycarbonate, polycarbonate blend, or pre-treated polyester films which will be formed then molded in the insert mold decorating process.

The addition of NB72 Catalyst or NB80 Adhesion Promoter is necessary for in-mold decorating applications.

Substrates:
Polycarbonate, polycarbonate blends and primed/pre-treated polyester used for insert mold decoration.

End Uses:
For second surface printing on polycarbonate or polycarbonate/polyester blend films that will be formed then molded in the insert mold decorating (IMD) process.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

8410	Primrose Yellow	8420	Brilliant Orange
8411	Lemon Yellow	8421	Peacock Blue
8412	Medium Yellow	8422	Ultra Blue
8413	Emerald Green	8427	Mixing/Overprint Clear
8418	Scarlet Red	8450	Barrier White
8419	Fire Red	8452	Super Opaque Black

Single Pigment Toners

8480	Yellow Toner	8485	Green Toner
8481	Orange Toner	8486	Blue Toner (GS)
8482	Carmine Toner	8487	Blue Toner (RS)
8483	Magenta Toner	8488	Violet Toner
8484	Maroon Toner	8489	Red Toner

Tie-Coat
8449	Tie-Coat

Transparents
84PB12	Transparent Medium Yellow
84PB18	Transparent Red
84PB60	Stop Sign Red

Halogen-Free Colors

84200	Mixing Clear		84213	Carmine
84201	Tinting Black		84214	Magenta
84202	Tinting White		84215	Maroon
84205	Super Opaque Black		84216	Violet
84206	Super Opaque White		84217	Blue RS
84210	Yellow		84218	Blue GS
84211	Orange		84219	Green
84212	Red			

Halftone Colors
84HTEX	Halftone Extender Base
84HTC	Halftone Cyan
84HTM	Halftone Magenta
84HTY	Halftone Yellow
84HTBK	Halftone Black

Transparent Colors
NSC60	Non-Conductive Black

Additives/Reducers
8448	Flatting Paste
NB72	Catalyst
NB80	UV Adhesion Promoter (for outdoor application)
RE 195	Thinner/Wash
RE 196	Retarder

Cleaners
IMS201	Universal Graphic Screen Wash
IMS301	Premium Graphic Press Wash

Color Card
Conventional: CARD375
Special Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

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182034PC
Etch Resist Black Screen Ink

182034PC Etch Resist Black Screen Ink has been formulated to print on various metal stocks, including brass and stainless steel used in the nameplate and printed circuit board industries.

This resist withstands not only most plating solutions but can be used as a solvent strippable resist with alkaline etchants. This resist ink is easily removed with Xylene (2555 Screen Wash) even after baking at relatively high temperature.

Substrates:
Copper, aluminum, brass, stainless steel

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Thinners
PA7   Thinner
PA8   Retarder
5550   Retarder Thinner

Cleaners
IMS201   Premium Graphic Screen Wash
IMS202   Universal Graphic Screen Wash
IMS301   Premium Graphic Press Wash
2555   Screen Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

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Textile
Screen Printing Inks

PX Series Perma-Flex Flock Adhesive Screen Ink

PX Series is formulated as a pigmented adhesive for flocking applications on a wide variety of natural textile materials. The excellent opacity and "short" body allows ease in achieving a thick adhesive deposit for flocking. PX Series is ideal for use without a high temperature dryer.

Substrates:
Cotton, cotton/polyester blends, some synthetics, Sunbrella®

End Uses:
Awnings, beach bags, t-shirts, banners, outerwear.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

PX10	Yellow	PX23	Navy Blue
PX13	Orange	PX24	Black*
PX15	Dark Green	PX25	White*
PX16	Brown	PX28	Purple
PX18	Scarlet Red	PX32	Gold
PX19	Fire Red	PX33	Kelly Green
PX21	Royal Blue	PX75	Super Opaque White*

Reducers/Thinners
PX30   Thinner

Cleaners
IMS401   Premium Textile Screen Wash
IMS501   Premium Textile Press Wash

Color Card
Color Card DA-PX: CARDDA

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

DA Series Nylon and Flock Screen Ink

DA Series is a two-part polymerizing screen ink that has been formulated to be extremely flexible and resistant to laundering and dry cleaning as well as ironing. DA Series is highly opaque, extremely flexible and elastic ink for printing and flocking most synthetic and natural textiles, including waterproof nylon and other synthetics having a finish. (Pretesting of waterproof nylon is recommended.)

The DA Series ink must be catalyzed with DA176 Catalyst before using.

Substrates:
Cotton, cotton blends, synthetics, waterproof nylon and finished synthetics.

End Uses:
Nylon jackets.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Standard Printing Colors

DALF104	Bright Red	DALF142	Emerald Green
DA111	Black	DA152	Light Blue
DA112	White	DA156	Brilliant Blue
DALF124	Orange	DA170	Clear
DALF134	Medium Yellow		

Additives/Reducers
DA176   Catalyst (Available half pints also)
DA1882   DA Accelerator (2 Fl. oz. Only)
RE188   Thinner

Cleaners
VF184   Screen Wash
IMS401   Premium Textile Screen Wash
IMS501   Premium Textile Press Wash

Color Card
Color Card DA-PX: CARDDA

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.

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

8500 Series Aquaprint™ II Super Concentrate Ink

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.

End Uses:
High fashion wearables, light-colored T-shirts, sweatshirts, and towels.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

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

Additives
AQ51	Prepare Extender Base
AQ53	Thickener
AQ54	Aqualube
AQ55	Softener
AQ56	Penetrant
AQ57	Antiwick
AQ58	Aquacat (quarts only)

Cleaners
IMS401	Premium Textile Screen Wash
IMS503	Textile Press Wash

Color Card
CARD95

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

9500 Series AquaPrint™ II Ready-For-Use (RFU) Screen Ink

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.

End Uses:
High fashion wearables, light-colored T-shirts, sweatshirts, and towels.

Product Range:
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

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

Additives
AQ51	Prepare Extender Base
AQ53	Thickener
AQ54	Aqualube
AQ55	Softener
AQ56	Penetrant
AQ57	Antiwick
AQ58	Aquacat (quarts only)

Cleaners
IMS401	Premium Textile Screen Wash
IMS503	Textile Press Wash

Color Card
Color Card 9500: CARD95

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Aqua Series AquaPrint™ II Additives

AQ51 Prepared Extender Base

To be used with 8500 Super Pigment Concentrate to 95% maximum ratio of 5% pigment concentrate to 95% AQ51. Another major use is extending the vibrant 9500 RFU colors to achieve lighter pastel shades.

Availability:
Quart and gallon containers.

AQ52 Low Crock

A binder that when mixed with water and our clear concentrate produces the extender base AQ51. Levels up to 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.

Availability:
Quart and gallon containers.

AQ53 Thickener

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

Availability:
Quart and gallon containers.

AQ54 Aqualube

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

Availability:
Quart and 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.

Availability:
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.

Availability:
Quart and gallon containers.

AQ57 Antiwick

Used to prevent wicking on certain fabrics which may have surface treatments. Add at 0.5% increments up to a total maximum of 2%

Availability:
Gallon 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. To speed up operations, print may be conveyor-dried at approximately 250° F.

The use of this product 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.

Availability:
Quart containers.

8550 Clear Concentrate

A basic clear concentrate for mixing with water and AQ52 low crock to provide the finished AQ51. As such, this mixture is used to regulate the viscosity of the system. High speed mixing equipment is required to use this product.

Availability:
Quart and gallon containers.

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Specialty
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& Additives
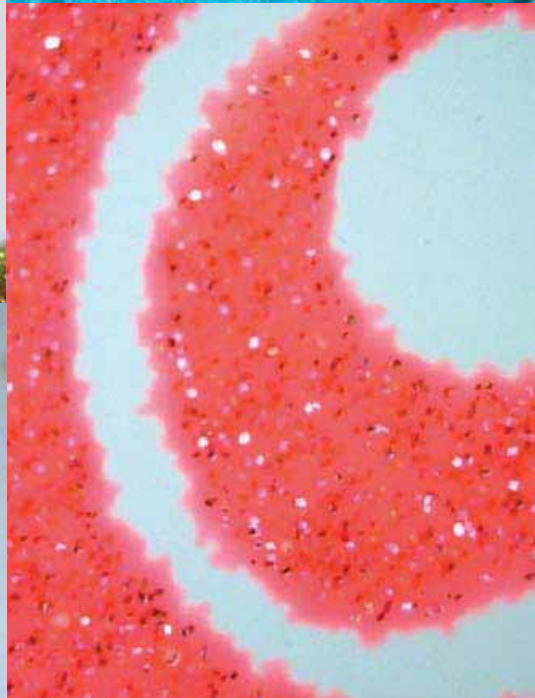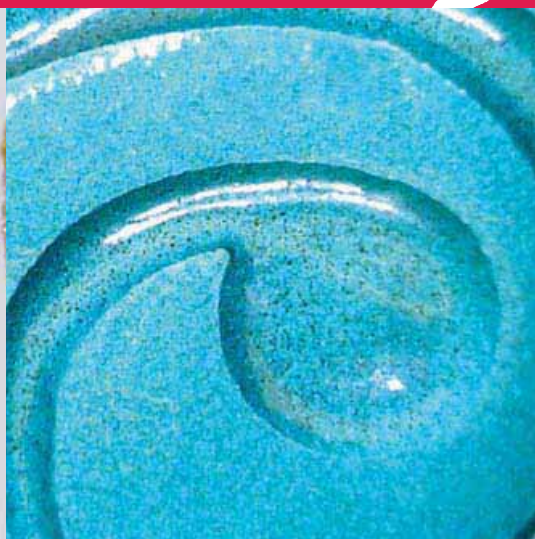
Specialty Powders & Pastes

Nazdar Metallic Powders/Pastes

BP24	Superfine Pale Gold Leaf	BP623	Fine Brilliant Aluminum
BP90	Light Pale Gold Lining	BP807	Superfine Aluminum
BP91	Rich Gold Lining	SIPM504	Aluminum Paste L-228
BP93	Copper Lining	SIPM514	950 Copper
BP99	Rich Pale Gold Lining	SIPM523	60 Rich Pale Gold Powder
BP120	Extra Fine Aluminum	SIPM525	Rich Gold Powder
BP177	Rich Pale Gold	SIPM527	C12 Pale Gold
BP195	Aluminum Lining	SIPM528	C12 Rich Gold Powder
BP200	Superfine Aluminum	SIPM529	60 Pale Gold
BP224	Copper Leaf	SIPM530	Pale Gold Powder
BP242	Extra Brilliant Aluminum	SIPM531	30 Aluminum Powder
BP325A	Aluminum	SIPM533	601-1 Aluminum Paste
BP400A	Aluminum	SIPM571	313 Aluminum Paste
BP400C	Copper	SIPM573	2871 Aluminum Pigment
BP400P	Pale Gold	SIPM606	Aluminum 6600
BP400R	Rich Gold	SIPM610	Premior 115 Gold
BP400RP	Rich Pale Gold		*Note: Additional Nazdar Metallic Powders/ Pastes available*

Nazdar Pearlescent

SIPI419 502	Red Brown	SIPI519	9307 Sw Gold Auto Grade
SIPI420 103	Rutile Sterling SI	SIPI520	9520 Sw Bronze Auto Grade
SIPI423 100	Silver Pearl	SIPI530	305 Solar Gold
SIPI453 123	Brt Luster Satin	SIPI536	Card Silver BN001
SIPI471 504	Red	SIPI543	302 Satin Gold
SIPI518	520 Bronze Satin	SIPI574	Icy White Silver

Nazdar Interference

SIPI544	Ultra Gold	SIPI547	Ultra Lilac
SIPI545	Ultra Red	SIPI548	Ultra Blue
SIPI546	Ultra Copper	SIPI549	Ultra Green

Nazdar Multi-Chromatic
SIPI532 T10-01 Viola
SIPI533 T10-02 Arctic Fire

Nazdar High Sparkle Powder
SIPI558 FM Pearl Glitter
SIPI575 Green/Purple Glitter

Nazdar Phosphorescents
SIPI466 Powder 6SSULB
SIPI479 Luminova BG 300 M PG
SIPI550 CII-Lite 25 Aqua Blue
SIPI563 Luminova G300 PIG

Nazdar Flourescent Pigment Powders
SIPP105 Flourescent Pink
SIPR622 Flourescent Red
SIPO510 Flourescent Red/Orange
SIPO511 Flourescent Orange
SIPO541 Flourescent Orange/Yellow
SIPY915 Flourescent Yellow
SIPY952 Flourescent Yellow/Green
SIPG305 Flourescent Green
SIPU711 Flourescent Blue

SIPR623 Flourescent Magenta

Nazdar Optical Brightener Powder
NSICH221 UVITEX Optical Brightener

Availability:
All of the above items are available in 1 lb. containers.

Flattening and Thickening Powders
SIPI413 Universal Flattening Powder
SIPI440 TS-100 Flattening Powder
SIPI414 Cab-o-Sil PTG Thickening Powder

Availability:
All of the above items are available in 1 lb. containers.

Specialty Inks

2 Part Urethane Clear
Nazdar Urethane Clear is a 2-part overprint clear designed for printing over Nazdar inks, including Plastic Plus, 9700, System 2, and 9600.

Products and Codes

223900 Urethane Clear Part A (gallon only)
223790 Urethane Clear Part B (quarts only)
223750 Urethane Clear Thinner (quarts only)
223760 Urethane Clear Retarder (quarts only)

Advantages of Urethane Clear Include:

1. Excellent outdoor durability
2. Good chemical resistance (excluding MEK)
3. Good flexibility
4. Good adhesion properties to common substrates including cast and 4 mil. vinyls, top coated polyester, and polycarbonate.
5. High gloss, wet look finish

Urethane clear is packaged in 2 parts. Combine parts A and B shown below. Mixing ratios are important to achieve final ink properties

By Weight:
Part A 85% + Part B 15% = 100%

By Volume:
Part A 128 fl. oz. (1 Gallon) + Part B 20 fl. oz. = 148 fl. oz.

Color Card- Specialty Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NFX20's Graphic Transparent UV Inks

NFX20's Graphic Transparent UV Screen inks provide a high color, high transparency for overprinting metallic effects or on clear substrates for POP / graphic applications. NFX20's Graphic Transparent UV Screen inks can be intermixed to expand your color offering.

Substrates:
Styrene, rigid vinyl, pressure sensitive vinyl, polycarbonates, some acrylics, coated papers, and coated cardstocks

Interprinting Inks:
NFX20's Graphic Transparent UV Screen inks are intended to overprint metallic effects on the substrates outlined in the 'Substrate' section. NFX20's Graphic Transparent UV Screen inks can overprint metallic effect using the following UV ink series:

UV First Down Chrome Silver and UV First Down Chrome Gold
PowerPrint® 1600 UV Ink Series
PowerPrint® Plus1800 UV Ink Series
PowerPrint® Banner1900 UV Ink Series

Refer Technical Data Sheet for the over-print ink to determine it processing recommendations.

Note: when overprinting metallic effects, pre-test to determine suitable inter-printing adhesion. Some metallic effects leaf and significantly reduce adhesion performance.

Packaging
All items listed below are available in gallon containers. These items are non-inventoried and made to order. See distributor for availability and container sizes of Additives/Reducers and cleaners.

NFX Graphic Transparent Colors

NFX21 Clear
NFX22 Red
NFX23 Magenta
NFX24 Violet
NFX25 Blue
NFX26 Green
NFX27 Yellow
NFX29 Black

Additives/Reducers

NB80   UV Adhesion Promoter (liters only)
RE308   UV Reducer
RE310   UV Reducer

Cleaners

IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

NNote: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NFX30's High Sparkle Glitter UV Inks

Nazdar's NFX30's High Sparkle Glitter UV screen inks provide ready pre-mixed colors for graphic applications. The ultra transparency of the inks results in a saturated, vibrant color that does not dull the high sparkle, glitter effect.

Substrates:
Styrene, rigid vinyl, some pressure sensitive vinyl, polycarbonate, some acrylic, coated paper, and coated cardstock.

Interprinting Inks:
It is recommended to use NFX30's High Sparkle Glitter inks as only an overprint on the substrates outlined in the 'Substrate' section. NFX30's High Sparkle Glitter inks can be interprinted with:

PowerPrint® 1600 UV Ink Series
PowerPrint® Plus1800 UV Ink Series
PowerPrint® Banner1900 UV Ink Series
4000 UV Ink Series

Refer the inter-print ink's Technical Data Sheet for processing recommendations.

Note: These colors are intended to work well from the container. Due to the large glitter flakes, bumps in the surface should be expected.

Packaging
Nazdar manufactures the colors listed below in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

NFX High Sparkle Colors
NFX31 Silver Clear
NFX32 Red
NFX33 Magenta
NFX34 Violet
NFX35 Blue
NFX36 Green
NFX37 Yellow
NFX38 Orange
NFX39 Black

Additives/Reducers
NB80   UV Adhesion Promoter (liters only)
RE308   UV Reducer
RE310   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement..

NFX56 Magnetic Receptive UV Ink

Magnetic Receptive UV Screen Ink can be used on various substrates to produce a surface coating that will attract a magnet. The ink deposit, printed surface area, and thickness of the magnet contribute to the level of attraction. Magnetic Receptive UV Screen Ink is only suitable for flat substrates; folding, flexing, etc. may cause cracking in the ink layer. The ink itself is non-magnetic.

Substrates:
Rigid Styrene, Polycarbonate, Some Coated Card Stock.

Packaging
The Magnetic Receptive UV Screen Ink is available in gallon containers.

Color Card
Magnetic Receptive Print Sample: LIT0401

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

NFX135 UV 1ST Down Chrome UV Screen Ink

NFX135 UV 1st Down Chrome Silver UV screen ink is used to produce a high sheen metallic effect for graphic applications. This ink is intended to be printed directly onto the substrate, and then overprinted with transparent colors to provide a variety of special color effects.

Substrates:
Coated paper, most styrene, pressure sensitive vinyl, and rigid vinyl

Product Range:
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/ Reducers and cleaners.

UV 1st Down Chrome Colors
NFX135　　　UV 1st Down Chrome Silver

Cleaners
IMS203　　　Economy Graphic Screen Wash
IMS207C　　Graphic Recirculating Wash
IMS301　　　Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

664645PS Hi Gloss Anti-Graffiti UV Screen Clear

664645PS Hi Gloss Anti-Graffiti Clear UV Screen Ink is designed to be used as an overprint clear to allow graffiti to be removed from the surface and to protect the underlying graphics from cleaners. This product is resistant to cleaners and solvents to allow for easy removal of graffiti. 664645PS Anti-Graffiti Clear is designed to be compatible over several inks; test for adhesion and printability over inks before use. Properly cured, this clear will be resistant to most common cleaning fluids; test for resistance properties prior to full scale production.

Substrates:
Pressure sensitive vinyl, coated papers, polycarbonate, static cling vinyl

Interprintable Graphic Inks
The following ink series can be used with 664645PS Anti-Graffiti Clear on their appropriate substrates referenced above: PowerPrint® 1600 UV Ink Series, PowerPrint® Banner 1900 UV Ink Series, 3200 UV Ink Series, 3600 UV Ink Series and 3900 UV Ink Series. Shop conditions vary; pretest the graphic ink and 664645PS Anti-Graffiti combination to determine optimum performance characteristics for a particular set of substrate, screen, press, and curing conditions.

Packaging
664645PS Anti-Graffiti Clear is available in gallon containers. See distributor for availability and container sizes of Reducers and removers.

Reducer/Remover
RE307　　　UV Reducer
668550KI　Graffiti Remover

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

690411PS Hi Gloss
Anti-Graffiti UV Screen Clear

690411PS Hi Gloss Anti-Graffiti Clear UV Screen Ink is designed to be used as an overprint clear to allow graffiti to be removed from the surface and to protect the underlying graphics from cleaners. This product is resistant to cleaners and solvents to allow for easy removal of graffiti. 690411PS Anti-Graffiti Clear is designed to be compatible over several inks; test for adhesion and printability over inks before use. Properly cured, this clear will be resistant to most common cleaning fluids; test for resistance properties prior to full scale production.

Substrates:
Pressure sensitive vinyl, coated papers, polycarbonate, static cling vinyl

Packaging
690411PS Anti-Graffiti Clear is available in gallon containers. See distributor for availability and container sizes of Reducers and removers.

Reducer/Remover
RE307   UV Reducer
668550KI   Graffiti Remover

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

667702KI
Special Mirror Silver Screen Ink

667702KI Special Mirror Silver Screen Ink is a solvent-based ink for printing second surface on transparent polycarbonate film. The ink film exhibits a mirror-like reflective surface when viewed through the top or first surface of the polycarbonate film.

Adhesion of the ink to substrates other than polycarbonate must be tested prior to any production run. The Mirror Silver Ink is not compatible with laminating adhesives. See section on Overprint.

The thoroughly dried ink film may be overprinted with 9700 Series solvent or 1500 Series UV inks for further protection. Overprinting the mirror ink with other ink systems is not recommended.

Substrates:
Polycarbonate

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Cleaners
IMS201   Premium Graphic Screen Wash
IMS301   Premium Graphic Press Wash

Color Card
Specialty Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

60009765KI
Special Mirror Silver Screen Ink

6009765KI Special Mirror Silver Screen Ink is a solvent-based ink for printing second surface on transparent polycarbonate and pre-treated polyester film. The ink film exhibits a mirror-like reflective surface when viewed through the top or first surface of the transparent film. The 60009765KI is not compatible with laminating adhesives. See section on Overprint.

Printing the ink over other ink systems is not recommended. The thoroughly dried ink film may be overprinted with a clear, black or white ink for enhanced protection but not necessary for the mirror effect. Compatible Nazdar inks for overprinting are the 9700 Series Conventional All-Purpose Ink, the 3400 Series UV Nameplate Ink and 1500 UV Flexiform Ink.

Substrates:
Polycarbonate, pre-treated polyester

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives
RE180 Retarder
RE185 Thinner

Cleaners
IMS201 Premium Graphic Screen Wash
IMS301 Premium Graphic Press Wash

Color Card
Specialty Effects Color Card: CARDSPL

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement..

UV Heavy Deposit Clear

661457PS UV Heavy Deposit Clear is a UV curable ink for screen printing to produce a thick ink deposit. A 661457PS UV Heavy Deposit Clear application is Braille printing.

Substrates:
Coated paper

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

An Ink That's Right For Every Job.

U.S.A. Phone: 1-800-767-9942

60013919GM
Matte Soft Feel Clear UV Ink

60013919GM UV Soft Feel Clear is a matte overprint clear ink for providing a somewhat soft feel, touchable surface that resists scuffing. 60013919GM UV Soft Feel Clear can also be used to print in selected areas to enhance the feel of a graphic image.

Substrates:
Rigid Vinyl, Styrene, Polycarbonate, and some Coated Papers.

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE302   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

282450PS Dry Erase
Clear UV Ink

282450PS UV Dry Erase Clear Screen Ink is screen printed to produce a surface that can be written on with dry erase markers and erased appropriately for reuse.

Substrates:
Coated Cardstock, Rigid Vinyl

Packaging
All items listed below are available in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE302   UV Reducer

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

PSLC294 UV Litho Overprint Clear

PSLC294 UV Litho Overprint Clear is a UV clear coat that has been formulated to yield a very durable and flexible film that exhibits an exceptional gloss finish. PSLC294 is designed to screen print over previously offset printed paper and cardstock.

Substrates:
Coated paper and cardstock

Packaging
PSLC UV Litho Overprint Clear is available in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Additives/Reducers
RE302   UV Reducer
RE308   UV Reducer (flexibilizer)

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

SCF Scratch-Off Solvent Inks

SCF Scratch Off inks are specially formulated to be printed on lottery tickets and games that are typically given away by retail outlets. This ink forms a very opaque film that hides the "prize" until the ink is removed by scratching with a fingernail or coin.

The card stock must be coated with a UV curable screen print clear such as the PSLC 294 UV Litho Clear to seal the cardstock prior to the application of SCF Scratch Off inks. An under-print of a clear provides the best adhesion and scratch-off properties of the SCF Scratch Off inks.

Substrates:
Card Stock

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/ Reducers and cleaners.

Scratch Off Inks
SCF32 Scratch Off Gold
SCF35 Scratch Off Silver

UV Litho Clear
PSLC294 UV Litho Clear

Additives/Reducers
5500 Thinner

Cleaners
IMS202 Universal Graphic Screen Wash
IMS301 Premium Graphic Screen Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

676154PS
SPL UV Mouse Pad Non-Slip Clear

676154PS Special UV Mouse Pad Non-slip Clear is intended to provide a rubbery, semi-tacky surface that resists slipping.

The Spl UV Mouse Pad Clear may be printed over the following Nazdar ink systems: 1600 Series, 1900 Series, 3400 Series, 3500 Series, 3600 Series and 3900 Series.

Substrates:
Polycarbonate, Top-coated or Primed Polyester, Vinyl

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners.

Cleaners
IMS203   Economy Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

65932134 SPL UV Laser
Printable Clear

65932134 Spl UV Laser Printable Clear is a primer to be screen printed over various films which will be processed using commercially available laser printers.

Substrates:
Various plastics

Packaging
Nazdar manufactures this ink in gallon containers. See distributor for availability and container sizes of Additives/Reducers and cleaners..

Cleaners
IMS201   Premium Graphic Screen Wash
IMS207C   Graphic Recirculating Wash
IMS301   Premium Graphic Press Wash

Note: For a complete description of this ink series printing applications and parameters, please refer to the Technical Data Sheet available online at: www.nazdar.com. Refer to page 14 of this catalog for Nazdar's Ink Usage Guidelines and heavy metals statement.

Screen Printing Color Matching & Formulation Software

ColorStar®
color management system

Color Matching and Formulation Software

Nazdar ColorStar®
Color Management Systems

Color Management Systems Software for Windows®
ColorStar is a powerful productivity tool developed specifically for screen printing shops, offering a list of features to make any screen printing business more efficient – and profitable. The ColorStar package includes Pantone® formula matches for the most popular Nazdar UV and conventional inks and comes complete with software, an easy to follow manual and a tutorial video program.

Compatible with any PC in the Microsoft Windows environment, ColorStar® is available in 3 versions to meet your production requirements and fit your budget.

ColorStar® Online
Nazdar's Online Pantone® Simulation Formula Guide Color Matching System. ColorStar Online provides a fast and easy way for Nazdar ink customers to achieve highly precise Pantone color matches, calculate ink usage for a particular job, or work off existing ink inventory.

Just visit www.nazdar.com/colorstar. Select a ColorStar procedure:

- Ink Formulas
- Find the percentages of inks and chemicals necessary to create a precise color match
- ColorStar calculaton
- ColorStar can quickly calculate formulations by unit, by number of prints, or by print area
- Workoff conversion
- Calculate the most efficient way to create a color match using your existing inventory of Nazdar inks

ColorStar® Pro 2.0
- Enhanced calculation field provides very accurate quantity usage predictions using exact parameters based on specific mesh and/or coverage data
- Accurate quantity predictions using exact parameters based on specific mesh and/or coverage data
- Stores the print parameters for each formula reducing costly set-up time for repeat jobs
- Expanded capabilities with updated ink lines including all Nazdar UV ink series
- Selected UV ink lines with 360 Series Inks and the Pantone® formulas
- Allows you to accurately and consistently produce and reproduce the correct Pantone® color match
- Creates database of custom colors - no need to re-enter formulas

Item No. SF0002

ColorStar® Manager
All of the features of ColorStar 2.0 plus:

- Inventory control field - adjusts and tracks inventory
- Generates inventory status reports
- Records re-order information and initiates purchase orders
- Inventory "work-off" function tracks unused ink that can be mixed to produce new colors so you can turn overstock into profit.
- Calculates inventory costs updates for more accurate job costing
- Production Management Reporting function provides cross-reference data on press downtime, formulations, specific ingredients and operator output.
- Open architecture allows entry of any ink series or importation of custom formulated databases.

Item No. SF0003

ColorStar® CheckWeigh
Same software as ColorStar Manager. plus:

- Complete color management system includes ColorStar Manager, desktop PC system, black & white laser printer and Metter Toledo 50 lb. scale
- Ability to interface with lab scale for smaller batch and sample mixing
- Compatible with software from X-Rite and other leading spectrophotometer manufacturers
- Automatically corrects for overpours
- Capacity to integrate with automated systems that gravimetrically dispense inks into stationary container

Item No. SPEC2000CWS

Interface Ability with Automated Dispensing Systems & Ink Formulation Systems.

Dispensing Systems

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Ink Technologies

LIT0600