Nazdar 7200 Series Lacquer Screen Ink

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

Substrates

Coated paper / Coated cardstock
Wood
Polyolefins (Tyvek)
Leather

Substrate recommendations are based on commonly available materials intended for the ink's specific market when the inks are processed according to this technical data. While technical information and advice on the use of this product is provided in good faith, the User bears sole responsibility for selecting the appropriate product for their end-use requirements. Reference the 'Quality Statement' at the end of this document.

User Information

Mesh

230-305 tpi (90-120 tpcm) monofilament polyester mesh for most applications.

Stencil

Use direct emulsions and capillary films which are solvent resistant.

Squeegee

70-80 durometer polyurethane squeegee.

Coverage

Depending upon ink deposit, the estimated coverage per gallon: 1,800-2,500 square feet (90-120 square meters)
Reference www.nazdar.com/en-us/ColorStar for examples of coverage calculations.

Screen Printing

Add only enough ink to the screen to be able to print for 5-10 minutes. Add additional ink in small increments throughout the print run to maintain screen stability. Thoroughly mix the ink prior to printing. Improper mixing can lead to inconsistent color and ink performance.

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

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

Nazdar does not recommend inter-mixing this ink series with other inks or series.

Drying / Curing Parameters

Air dries in 10-15 minutes at normal room temperature. Force drying is achieved in 40-60 seconds at 90°-150°F (32°- 66°C). It is important to have good air flow to help remove solvents and accelerate drying. If the temperature is too high without good air flow, blocking may occur when the sheets are stacked warm. Multiple layers of ink may require longer drying times than a single layer.

Adhesion Testing

- Touch of ink surface – the ink surface should be smooth.
- Scratch surface – the ink surface should resist scratching.
- Thumb twist – the ink surface should not mar or smudge.
- Cross hatch tape test – per the ASTM D-3359 method, use a cross hatch tool or a sharp knife to cut through ink film only; then apply 3M #600 clear tape on cut area, rub down, and rip off at a 180 degree angle. Ink should only come off in actual cut areas.

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Cleanup
For screen cleaning, similar products to those listed below may be used.

Screen Wash (Prior to Reclaim): Use IMS201 Premium Graphic Screen Wash or IMS203 Economy Graphic Screen Wash
Press Wash (On Press): Use IMS301 Premium Graphic Press Wash

Ink Modifications

Clears / Varnishes
Overprint Clear / Mixing Clear/Metallic Clear: use to reduce the density of colors or as a clear base for specialty additives such as Metallic additives. Use as an overprint clear to provide added surface protection to colors.

Additives
Prior to production, test any additive adjustment to the ink. Inks containing additives should not be mixed with other inks.

Example for additives: Ink at 100g with 8% of an additive is calculated as: 100g ink + 8g additive = 108g total

Reducer / Thinner
Use the following item(s) to reduce the viscosity of these inks. Over reduction can reduce print definition, film thickness and adversely affect cure.
Use RE185 Thinner to reduce the viscosity of these inks. Add up to 5%.

Retarder
RE182 Retarder Use a blend of 5% of RE185 Thinner and 5% of RE181 Thinner/Retarder to prevent drying in the screen during hot climate conditions or for slower drying.
Over reduction with retarder can result in blocking.

Gloss / Flattening Powders / Improved Slip
7248 Flattening Paste
Use to reduce gloss and improve slip.
Add up to 20%.

General Information
Handling
Refer to the SDS for recommendations on handling.
Wear gloves and barrier cream to prevent direct skin contact. Safety glasses are suggested in areas where ink may be splashed. If product does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or reducer). Wash the affected area with soap and water.

Consult the applicable Safety Data Sheet (SDS / MSDS) for further instructions and warnings.
For assistance on a wide range of important regulatory issues, consult the following Regulatory Compliance Department link at http://www.nazdar.com or contact Nazdar Ink Technologies - World Headquarters (see contact listing at the end of this document).

Storage / Shelf Life

Ink taken from the press should not be returned to the original container; store separately to avoid contaminating unused ink. Store closed containers at temperatures between 65°-78°F (18°-25°C). Storing products outside of these recommendations may shorten their shelf life.
Standard items useable for a period of at least **48 months** from the date of manufacture.

Shelf life above applies to the standard ink items listed on this TDS. To obtain the shelf life for special inks and additives, contact Nazdar Customer Service or Nazdar Technical Service. See contact listing at the end of this document.

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

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Standard Printing Colors
Standard Printing Colors: have excellent opacity and flow characteristics. These colors are intended to work as supplied.

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

60 Series Colors: 61-69 colors have a high pigment concentration. These colors are formulated to have some white pigment or opaque pigment to increase opacity.

Special Effect Pigments
When inks are to be printed with a special effect color, all ink layers must be evaluated for intercoat adhesion before proceeding with the production run. To maximize intercoat adhesion, specialty colors should be printed as late as possible in the print sequence.
Pigments may settle in the container; prior to printing, thoroughly mix the ink.
The following special effect pigments may be added to the ink. Contact Nazdar for the item number(s) and availability of special effect products or they can be found at www.nazdar.com.

Metallic Additives: Chemical reactions in metallic inks may result in viscosity, color and printability changes over time; due to this, mix only enough metallic ink to be used the same day.
Pearlescent / Interference, add up to: 20%
Multi-Chromatic, add up to: 10%

Color Card Materials
The following is a list of available literature representing this ink series.
- Conventional Color Card (CARD375): shows the Standard Colors, Pantone Matching System Base Colors, and Halftone Colors.
- Special Effects Color Card (CARDSPL): shows various special effect pigments mixed with clear

Packaging / Availability
Contact your Nazdar distributor for product availability and offering.

Item Type	Item Number	Item (or Color) Description
Standard Colors	7210	Primrose Yellow
Standard Colors	7211	Lemon Yellow
Standard Colors	7212	Medium Yellow
Standard Colors	7219	Fire Red
Standard Colors	7220	Brilliant Orange
Standard Colors	7221	Peacock Blue
Standard Colors	7222	Ultra Blue
Standard Colors Clears / Varnishes	7227	Mixing/Overprint Clear
Standard Colors	7252	Super Opaque Black
Standard Colors	7275	Super Opaque White
Pantone Base Colors	7258	Tinting White
Pantone Base Colors	7259	Tinting Black
Pantone Base Colors	7260	Orange
Pantone Base Colors	7261	Yellow
Pantone Base Colors	7262	Warm Red
Pantone Base Colors	7263	Rubine Red
Pantone Base Colors	7264	Rhodamine Red
Pantone Base Colors	7265	Purple
Pantone Base Colors	7266	Violet
Pantone Base Colors	7267	Reflex Blue
Pantone Base Colors	7268	Process Blue
Pantone Base Colors	7269	Green

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Additives	7248	Flattening Paste
Additives	RE181	Thinner/Retarder
Additives	RE185	Thinner
Cleaners	IMS201	Premium Graphic Screen Wash
Cleaners	IMS203	Economy Graphic Screen Wash
Cleaners	IMS301	Premium Graphic Press Wash

Nazdar Quality Statement

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

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