Technical Data Sheet

Nazdar 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 a cost-effective ink for short term POP displays, posters, serigraphs applications.

Substrates

Coated paper / Coated cardstock
Uncoated paper

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.

Mesh

175-230 tpi (70-110 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: 1,000 - 1,500 square feet (93-139 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

This ink ink dries by solvent evaporation in 20-30 minutes, and may be force dried in a conveyor dryer with good air flow at temperatures of 110°-130°F (44°-55°C) within seconds.

Adhesion Testing

- Touch of ink surface – the ink surface should be smooth.
- Thumb twist – the ink surface should not mar or smudge.
- Scratch surface – the ink surface should resist scratching.

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
Mixing Clear/Metallic Clear: use to reduce the density of colors or as a clear base for specialty additives such as Metallic additives.
Base: Use to increase coverage without affecting ink viscosity

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 5500 Thinner or 9050 Retarder Thinner to reduce the viscosity of these inks. Add up to 15%. Do not exceed recommended levels of reduction. Over reduction with retarder can result in blocking.

Retarder
Use 5560 Fast Thinner to slow drying times.

Adhesion Promoter
Use 5549 Binder Varnish to improve adhesion and rub resistance on absorbent stock.

Accelerator
Use 5560 Fast Thinner to reduce drying times.

Roller Coating modifier
Use a blend of 50% 5549 Binder Varnish and 50% 5500 Thinner for roller coating applications.

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).

Outdoor Durability Variables
Outdoor durability cannot be specified exactly. Slight color change and loss of gloss should be expected. Variables affecting a printed part's durability include:
- Ink film thickness and degree of curing
- Color formulation: large amounts of mixing clear or white, mixing several colors into one match, and/or mixing a small quantity of any single color
- Substrate type and age
- Mounting angle and directional orientation
- Geographical location
- Degree of air pollution
- Excessive abrasion
- Non-clear coated prints exhibit more color change and loss of gloss.

Storage / Shelf Life
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.

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.

Standard Printing Colors

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

LF Colors

Colors with an item number containing “LF” are lead-free alternatives that replaced a lead containing color. All Nazdar manufactured inks are lead-free.

Fluorescent Colors

These colors require special considerations due to their high pigment contents. Best results are achieved when printed through a mesh that offers more open area. These inks have the tendency to settle; so high speed mixing is required prior to printing. Fluorescent colors fade quickly with exposure to ultraviolet light and are not recommended when outdoor durability is required.

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%

Packaging / Availability

Contact your Nazdar distributor for product availability and offering.

Item Type	Item Number	Item (or Color) Description
Standard Colors	55LF01	Primrose Yellow
Standard Colors	55LF02	Lemon Yellow
Standard Colors	55LF04	Sign Red
Standard Colors	5508	Radiant Ultra Blue
Standard Colors	5509	Midnite Blue
Standard Colors	5511	Jet Black
Standard Colors	5512	Opaque White
Standard Colors	55LF14	Emerald Green
Standard Colors	5515	Cobalt Blue
Standard Colors	55LF16	Dark Green
Standard Colors	55LF18	Medium Yellow
Standard Colors	55LF20	Fire Red
Standard Colors	5521	Rich Brown
Standard Colors	55LF25	Cyanine Green
Standard Colors	5526	Maroon
Clears / Varnishes	5530	Transparent Base
Standard Colors	55LF33	Brilliant Light Orange
Clears / Varnishes	5536	Extender Base
Standard Colors	55LF44	Scarlet Red
Standard Colors	5546	Carmine Red
Standard Colors	5547	Dark Royal Purple
Standard Colors	5554	Dark Peacock Blue
Standard Colors	5557	Raw Umber

Standard Colors	5561	Brilliant Pale Gold
Standard Colors	5570	Bronze Liquid
Fluorescent Colors	5592	Mint Green
Fluorescent Colors	5594	Citron Yellow
Fluorescent Colors	5595	Poppy Red
Fluorescent Colors	5596	Golden Yellow
Fluorescent Colors	5597	Coral Pink
Fluorescent Colors	5598	Tropical Orange
Fluorescent Colors	5599	Galaxy Blue
Additives	5500	Thinner
Additives	5549	Binder Varnish
Additives	5560	Fast Thinner
Additives	9050	Retarder 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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