

Nazdar 270 Series Digital Inkjet Ink

Nazdar 270 Series is a general graphics/product print ink set designed for UV-LED curing with ambient temperature controlled printheads such as Ricoh GH2220 and Epson DX7 i.e.

Features

- Long-term exterior performance with proven resistance to the effects of UV degradation and color fade
 - Low viscosity inks designed for machines that do not require an ink that must be heated to jet at a given specification i.e. Ricoh GH2220 or Epson DX7
 - Displays market acceptable surface cure under UV-LED curing
 - Designed to have a low *odor
 - Adhesion on a variety of flexible and rigid substrates with a high attraction to vinyl and polycarbonate
- *Odor, will vary to one's sensitivity or opinion. The components used in the chemistry are industry marketed low odor components

Substrates

Foamboard
Polycarbonate (PC)
PVC - Sintra
Styrene (PS)
Reinforced vinyl banner
Pressure sensitive vinyl (PVC)

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.

Cure Parameters

Nazdar® LED270 Series inks are formulated to cure when exposed to a LED light source in the 395 nanometer range with output of at least 4 watts/cm².

Ink Handling

All personnel handling this product must wear gloves and eye protection. Clean up all spills immediately. If ink does come in contact with skin, wipe ink off with a clean, dry cloth (do not use solvent or flush solution). Wash the affected area with soap and water. Consult the Safety Data Sheet for further instructions and warnings.

Cleanup

For clean-up of ink spills and equipment use LWU7002FF UV Maintenance Solution. Avoid contact with skin. Wear approved safety glasses and appropriate gloves when using Maintenance Solution. Consult the MSDS for further safety precautions.

Particle Size

The average particle size of the finished ink is .3 micron. All batches of ink are formulated and tested to be less than 1 micron.

Surface Tension

Surface Tension is measured by a DuNouy Ring device at 25° C. The surface tension naturally varies within our min/max tolerances from color to color.

- Min: 32 dynes/cm
- Max: 36 dynes/cm

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.

Weathering / Outdoor Durability

When ink series is used with the proper color management, color variance will be minimal over a period of 24 months vertical

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outdoor exposure. Outdoor durability is based on actual outdoor weather testing in the central U.S. on statically mounted substrates. Results for regions with extreme weather conditions or applications other than static signage may vary significantly and should be tested by the end user.

To ensure ink density and hue values do not change during outdoor exposure, it is important to use proven substrates (flexible vinyls and pressure sensitive vinyls) that do not "yellow" or vary from their original white cast when exposed outdoors.

Environmental Operations Parameters

Temperature:

- 66 ° F – 80 ° F [19 ° C – 27 ° C]

Humidity:

- Optimum: 40% - 60% (non-condensing)
- Operational: 30% - 70% (non-condensing)

Storage / Shelf Life

Store ink and flush solutions at 18°- 27° C (65°- 80°F). Ink and flush solutions should always be kept away from heat, sparks, and flames. If stored at a different temperature, the ink should be allowed to reach room temperature before calibration or printing. The shelf life of this product is 12 months from the date of manufacture when stored under prescribed conditions.

*White, when packaged in a cartridge has a shelf life of 6months from the date of manufacturing when stored underprescribed conditions.

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.

Packaging / Availability

Contact your Nazdar distributor for product availability and offering.

Manufacturer's Product Offering

All colors listed in the table below are available in 1 liter and 220cc cartridge options.

Item Type	Item Number	Item (or Color) Description
Standard Colors	LED270CY	Cyan
Standard Colors	LED270MA	Magenta
Standard Colors	LED270YE	Yellow
Standard Colors	LED270KK	Black
Standard Colors	LED270WH	White
Standard Colors	LED270NC	Clear
Flush	LWU7001FF	UV Maintenance Solution

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®.

Nazdar Ink Technologies Offices

Nazdar Ink Technologies - World Headquarters
 8501 Hedge Lane Terrace
 Shawnee, KS 66227-3290 USA
 Toll Free US: 866-340-3579
 Tel: +1 913-422-2255
 Fax: +1 913-422-2296
 Customer Service E-mail: NazdarOrders@nazdar.com
 Technical Support E-mail: TechSupport@Nazdar.com

Nazdar Limited – EMEA
 Battersea Road, Heaton Mersey
 Stockport, England SK4 3EA

Nazdar 270 Series Digital Inkjet Ink

Tel: + 44 (0)-161-442-2111
Fax: + 44 (0)-161-442-2001
EMEA Customer Service E-mail: infoUK@nazdar.com
EMEA Technical Service E-mail: technicalservicesUK@nazdar.com

Nazdar – Asia Pacific
11 Changi North Street 1
#03-03/04
Singapore 498823
Tel: +65 6385 4611
E-mail: aspac@nazdar.com