Technical Data Sheet

Nazdar 775 Series UV-LED Digital Inkjet Inks

The Nazdar 775 Series Inks are specifically formulated for use in general graphics applications. These inks are designed to work with heated medium viscosity print-heads.

The 775 inks are engineered to cure using lower energy output UV and LED curing lamps. This means that they can be effectively cured with less energy consumption. This not only helps in reducing operational costs but also supports more environmentally friendly printing practices by lowering the overall energy footprint.

Overall, the Nazdar 775 Series Inks offer a combination of performance, user-friendliness, and energy efficiency, making them a versatile choice for a wide range of graphic printing needs.

Features

- Used in Kyocera KJ4A
- Low odor formulation
- Curable by UV (Hg), D bulb (Fe) and LED
- Market acceptable idle time before purge/wipe
- Print speed up to 1.6 m/min

Substrates

Reinforced vinyl banner
Pressure sensitive vinyl (PVC)
Window cling
Polystyrene
Flexible vinyl (PVC)
Flexible backlit media
Clear and white PET
Foamboard
Roll polycarbonate
Adhesion should always be tested as adhesion does depend upon curing conditions, age and manufacturer of substrate

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

These guidelines are intended only as a starting point for determining cure parameters, which must be determined under actual production conditions. "Undercuring" the ink may result in poor adhesion, lower block resistance, reduced durability, and higher residual odor. "Overcuring" the ink may reduce the flexibility of the printed part and adhesion of subsequent ink layers.

Ink cures when exposed to conventional UV and/or LED curing unit(s).

Requirements for LED:
- 4 W/cm2 or higher
- 395 nanometer wavelength

Requirements for Conventional UV:
- Mercury (Hg) bulb
- Minimum (per pass) 800 mW/cm2
- Mercury/iron doped bulb
- Minimum (per pass) 600 mW/cm2

Note: many factors dictate cure i.e.; dot size, inkcoverage, pass count, speed and color management.

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.

Ink Changeover
An NIT technician will be present for an inkinstallation. When UV inkjet equipment is not in use forextended periods, the ink should be flushed fromthe printheads to avoid unwanted in the headcuring from stray light sources.

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
All batches of ink are formulated and tested to have an average particle size under 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: 21 mN/m
• Max: 23.5 mN/m

Viscosity
Viscosity requirements meet the specification of medium viscosity printheads operating in a range of 7 - 9 cPs, measured at 45°C.

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
Series colors are formulated to provide 2 years outdoor durability when mounted vertically in the Central U.S.A.
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:o Large amounts of mixing clear or white• Substrate type and age• Mounting angle and directional orientation• Geographical location• Degree of air pollution• Excessive abrasion

Environmental Operations Parameters
Temperature:
- 65˚ F – 80˚ F [18˚ 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.

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.

Validated Equipment
Series Inks are designed for use in the following printers platforms: • Vanguard VK300 D-HS • Vanguard VKR3200 HS If your

machine is not listed and you would like to validate, please reach out to product management at InkAnswers@nazdar.com

Manufacturer's Product Offering

All colors listed in the table below are available in1-liter containers.

Item Type	Item Number	Item (or Color) Description
Standard Colors	60053369GR1L	Nazdar 775 Series Cyan
Standard Colors	60053370GR1L	Nazdar 775 Series Magenta
Standard Colors	60053371GR1L	Nazdar 775 Series Yellow
Standard Colors	60053373GR1L	Nazdar 775 Series Lt Cyan
Standard Colors	60053374GR1L	Nazdar 775 Series Lt Magenta
Standard Colors	60053375GR1L	Nazdar 775 Series White
Standard Colors	60053372GR1L	Nazdar 775 Series Black
Flush	LWU7002FF	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®.

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