

Phosphorescent, also referred to as 'Glow in the Dark' or 'Luminescent', powders are pigments that absorb light and slowly emit a glow over time. The glow is best seen in darkness or under black-light conditions. Depending on the pigment and pigment load in the ink, the glow may last a few minutes or several hours. Nazdar Phosphorescent Pigments are packaged in 1-pound containers and can be used in various UV-curable and solvent-based ink series.

Cautions

Too much Phosphorescent Pigments can lead to curing issues, reduces the ink flow, and poor transfer. Pigments settle in the container; prior to printing, thoroughly mix the ink.

Specific Use**Powder Glow Color & Duration**

Phosphorescent powders are available in a range of colors. The following table outlines each product's glow color once light-charged duration. The table also outlines the general glow properties per powder as 'Short' = several minutes to 'Long' = several hours.

Item	Color	Glow Duration
SIPI466	Green	Short
SIPI479	Blue	Long
SIPI563	Green	Long

Additive Usage

Special Effect pigments are used with Nazdar solvent-based and UV-curable clear and transparent inks.

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.

Pigment Load

Most screen inks provide specific information on the use of these pigments on its specific Technical Data Sheet. The following is a general recommendation at to a starting point.

Add up to the following amount to the ink by weight: **50%**

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

Mesh

195-280 tpi (77-110 tpcm) with a mesh opening of 50-80 um monofilament polyester mesh for most applications.

Screen Printing

If any inks are to be over printed special effect ink(s), the overprinting ink(s) must be evaluated for intercoat adhesion before proceeding with the production run.

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

Inter-Printable

When inks are to be printed over these effect colors, the overprinting ink(s) must be evaluated for intercoat adhesion before proceeding with the production run. To maximize intercoat adhesion over interference colors, Interference colors should be printed as late as possible in the print sequence.

Additives

Any additives should be thoroughly mixed before each use. Prior to production, test any additive adjustment to the ink. Inks containing additives should not be mixed with other inks.

General Information

Handling

Refer to the SDS for recommendations on handling.

Inhalation is the primary route of exposure and irritation with powder pigments. Therefore, it is recommended that all personnel mixing and handling these products minimize the creation of dust. If pigment is inhaled, seek fresh air and consult a doctor if feeling unwell.

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).

Specific Storage / Shelf Life Info

Store tightly closed in a dry area. These pigments items are useable for a period of at least **12 months** from the date of manufacture. 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. Contact Nazdar Technical Service at InkAnswers@nazdar.com, for any questions. Store tightly covered at a temperature between 65°-90°F (18°-32°C).

Packaging / Availability

Contact your Nazdar distributor for product availability and offering.

Standard Colors

Standard items listed below are inventoried in 1 pound containers.

Item Type	Item Number	Item (or Color) Description
Additives	SIPI466	Phosphorescent Powder 6SSULB
Additives	SIPI479	Lumnva BG 300M Phos PG
Additives	SIPI563	Luminova G300M Pho Pig

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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