wilflex™

Product Information Bulletin

99900PFX Epic Phosphorescent
99950PFX Epic Kosmic Glo
99951PFX Epic Intense Kosmic Glo
12200PC Excite Yellow PC
12200PC Kosmic Glo Powder

Wilflex Glo/Phosphescent inks are high intensity, phosphorescent, glow-in-the-dark inks. Kosmic Glo inks provide high intensity and maintain a long duration. Phosphorescent inks provide high intensity for a shorter duration. The inks can be used as stand-alone inks, straight out of the container or integrated with other inks to create a super "glo" effect.

Highlights

- Compliant with CPSIA (Consumer Product Safety Improvement Act) 2008, Section 101, Lead Content in Substrates (<300 ppm lead); 16 CFR, Part 1303, Lead in Paint (<90 ppm lead); and CPSIA 2008, Section 108, Phthalates (<.1% DEHP, DBP, BBP, DINP, DIDP, DNOP).
- Eco-Passport Certified.
- Glow duration and intensity are listed from longest/brightest to shortest/lightest
  - Inks
    - 99951PFX Epic Intense Kosmic Glo
    - 99950PFX Epic Kosmic Glo
    - 99900PFX Epic Phosphorescent
  - Pigments
    - 12222PC Kosmic Glo Powder
    - 12200PC Excite Yellow Powder
- High intensity phosphorescent glow with long lasting afterglow.
- Excellent wash properties.
- Use as a highlight in the graphic image.

Printing Tips

- For best results, follow the recommended Printing Parameters.
- Best "glow"results when printed directly onto light colored fabric.
- Use light colored ink underlay if printing onto dark fabric grounds.
- Recommended Mixing instructions: 12222PC Kosmic Glo Powder or 12200PC Excite Yellow - Addition of 10% pwder to a clear, unfilled base such as 10008PFX Epic Special Effects Clear. Add Epic PCs, Epic Equalizers or Epic MX to create custom color tint to the Kosmic finished ink. Additions of pigments or finished ink to the base should not exceed 5% by weight.
- Use consistent, high-tension screen mesh to optimize performance properties.

Precautions

- Perform fusion tests before production. Failure to cure ink properly may result in poor wash fastness, inferior adhesion and unacceptable durability. Ink gel and cure temperatures should be measured using a Thermoprobe placed directly in the wet ink film and verified on the production run substrate(s) and production equipment. It is the responsibility of the printer to determine that the correct ink has been selected for a specific substrate and the application processes meet your customer's standards or specifications.
- Glow response will be impaired if more than the recommended color is added to the Kosmic Glo Base.
- Preprint and test all fabrics for dye migration.
- Stir plastisols before printing.
- Do not dry clean, bleach or iron printed area.
- **NON-CONTAMINATION OF EPIC INKS**
  - Do not add or mix non-Epic inks, additives or extenders with the Epic ink products.
  - All buckets, palette knives and stirring apparatus must be cleaned properly and free of phthalate containing inks. All squeegees, flood bars and screens must be cleaned properly to remove phthalate containing inks before printing Epic.
  - Non-phthalate emulsions and pallet adhesives must be used.
- Any application not referred in this product bulletin should be pre-tested or consultation sought with Technical Services Department prior to printing.
- Email: techserviceswilflex@polyone.com

Printing Parameters

Opacity	n/a
Bleed Resistance	n/a
Smooth Surface	8
Flash	9
Gloss	4
Printability	8

Fabric Types
100% Cotton, Cotton Blends, Some Synthetics

Mesh
Counts: 60-140 t/in (24-55 t/cm) recommended
Tension: 25-35 n/cm² recommended

Squeegee
Durometer: 60-70, 70/90/70
Edge: Sharp
Stroke: Medium
Avoid excess pressure

Stencil non-phthalate
Direct: 2 over 2
Capillary/ thick film: 200-400 micron
Off contact: 1/16" (.2 cm)

Gel/Cure Temperatures
Gel: 220°F (104°C)
Cure: 325-350°F (160-177°C) Entire Film

Epic Pigment Loading
MX: 5% max by weight
EQs: 5% max by weight
PCs: 5% max by weight

Additives
Extender: None Recommended
Reducer: None Recommended

Storage
65°-90°F (18°-32°C)
Avoid direct sun.
Use within one year of receipt.

Clean Up
Wilflex screen wash

Health & Safety
MSDS: www.polyone.com

www.wilflex.com/pib

TECH SUPPORT PHONE: 888.600.6789 / WEB: TECHSUPPORTSPS.COM

Wilflex Epic Glow Inks :: 06.2011

PolyOne Wilflex™ inks by PolyOne.

©2011 PolyOne Corporation All Rights Reserved. Effective 06/01/2011. Not all Wilflex products are available in every country. The information in this publication is based on information and experience believed reliable. Since many factors may affect processing for an application, processors must carry out their own tests and experiments to confirm suitability for intended use. You must make your own determination of suitability for your intended use and environmental acceptability, the safety and health of your employees, and purchasers of your product.