

Technical Data Sheet

G-Series Pad & Screen-Printing Ink

Application Overview

The G-Series pad printing ink range is designed for a broad spectrum of applications. It is particularly well-suited for printing on thermoplastics such as polycarbonate (PC), PMMA (acrylic glass), polyamide (PA), pre-treated polyolefins like polypropylene (PP), as well as duroplastics and coated surfaces.

Specifically, G-Series inks have been optimized for both coated and uncoated golf balls, ensuring excellent adhesion and print quality across various materials.

Properties

- The G-Series pad printing inks have been formulated using environmentally compatible raw materials in line with current safety standards. The inks, along with the necessary thinners and additives, are free from aromatics, butyl glycolate (GB-Ester), cyclohexanone, Bisphenol A (BPA), and polycyclic aromatic hydrocarbons (PAH). This ink system meets the criteria for the GS mark (Category 1) according to the GS specification AfPS GS 2014-01 PAH.
- The G-Series inks are solvent-based and can be used as either a 1-component or 2-component system with a hardener. When processed as a 1-component system, the ink dries through physical evaporation; as a 2-component system, it dries through a combination of physical and chemical reactions, resulting in a satin gloss finish.
- These inks offer exceptional ease of use and consistent, reliable printability.

Note: Due to the wide range of substrates, pre-testing is essential. Additionally, it is recommended to evaluate the effectiveness of any necessary pre-treatment (such as cleaning, degreasing, flame, corona, or plasma treatment) or post-treatment (e.g., flame-drying) of the substrates.

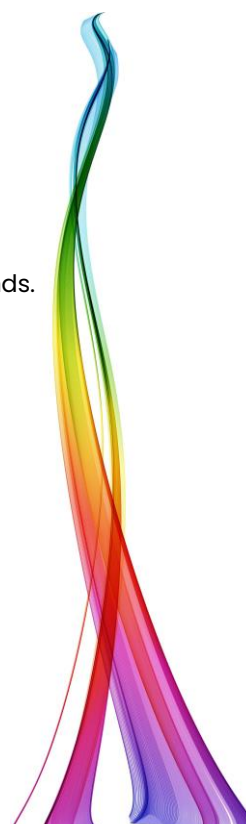
Drying

Drying times below are only approximate as drying properties depend on various factors:

- Type and amount of thinners/retarders used.
- Thickness of printed ink layer (single print, multi-layer print).
- Drying temperature
- Depending on local conditions, average drying time is approx. 2 – 3 minutes.
- Drying time with heat application (e.g. hot air fan) and air circulation is about 30 – 60 seconds.
- Complete drying may take several hours, depending on the substrate.

Colors

- Base ink system with 12 color shades for mixing of RAL, PMS and HKS colors.
- Opaque: Standard HD Highly opaque color shades.
- Custom colors available upon request.



Choice of Pigments and Light Fastness

Color shades of the G-Series ink range contain pigments with a high light fastness. Light fastness and weather resistance will reduce if thinner layers are applied or if base colors are mixed with a high ratio of white or varnish.

G-Series inks are suitable for medium-term outdoor applications.

Available Additives

Depending on local conditions ink is adjusted to printing consistency by addition of 15 – 35% by weight of thinner.

PRISMflex Part Number	Description	Available Size
700001	Additive – Hardener	1 Liter
700030	Additive – Slow Thinner	1 Gallon
700035	Additive – Medium Slow Thinner	1 Gallon

*All of our **thinners** are mixable and can be used as a cleaner as well.*

Safety Data Sheets

Read safety data sheet prior to processing.

Safety data sheets are available upon request.

Safety data sheets comply with Regulation (EC) No. 1272/2006 (REACH), Appendix II.

Classification and Labelling

Hazard classification and labeling comply with Regulation (EC) No. 1272/2008 (CLP/GHS).

Conformity

- Compliance confirmations are available upon request.
- The safety data sheets must be read prior to processing.
- In compliance with the Directive 91/155/EEC, the safety data sheets contain the labelling and safety advise on the use, storage and recycling of the ink according to the provisions of Directive 1999/45/CE of the European Parliament and Council (ordinance about dangerous preparations).

The information given in the material safety data sheet refers to processing as described in this product data sheet.

Storage

The shelf-life is 2 years in original, unopened containers

Packaging

The inks are provided in volumes of 100g, 1 kg, 1 gallon.

The printers, converters and the packer/filler have the legal responsibility to insure that the finished article fits for the intended purposes and that the inks and coating components do not migrate into the consumer good at levels that exceed legal and industry requirements.

The statements in our product and safety data sheets are based on our present experiences, however they are no assurance of product properties and do not justify a contractual legal relationship. They serve to advise our business associates, but it is absolutely necessary to make your own printing tests under local conditions, with regard to the intended purpose prior to starting the job. All former product data sheets are no longer valid.

