PERMA COLOUR INC.
MANUFACTURER OF SILKSCREEN INKS AND SERVICES

NYLON INK SERIES

PROPERTIES

The nylon ink series is a two component semi-gloss ink. It is usually flexible, with high opacity, excellent adhesion and high rubbing resistance. It only requires air-drying for it to dry down.

PRODUCT RANGE*

Product Name	Product Code	Product Name	Product Code
Slow Dry Reducer	NRA - 01	Ultramarine Blue	NIS – 435A
Fast Dry Reducer	NRB - 01	Permanent Blue	NIS – 439A
Screen Wash	NQDR – 1	Violet	NIS – 483A
Nylon Catalyst	NIC – 100A	Rich Gold	NIS – 486A
Nylon Clear Paste	NIS – 400A	Black	NIS – 492A
White	NIS – 468A	Silver	NIS – 495A
Primrose Yellow	NIS – 426A	Pale Gold	NIS – 498A
Lemon Yellow	NIS – 420A	Orange	NIS – 435A
Chrome Yellow	NIS – 423A	Deep Green	NIS – 479A
CT Yellow	NIS – 421A	Fluorescent Yellow	NIS – 435A
Original Yellow	NIS – 422A	Fluorescent Blue	NIS – 437A
Fire Red	NIS – 402A	Fluorescent Orange	NIS – 447A
Medium Red	NIS – 406A	Fluorescent Red	NIS – 451A
Original Red	NIS – 407A	Fluorescent Magenta	NIS – 452S
Dark Red	NIS – 408A	Fluorescent Pink	NIS – 459A
Yellowish Red	NIS – 410A	Fluorescent Green	NIS – 476A
Rose Red	NIS – 413A	Fluorescent Violet	NIS – 485A
Blue	NIS – 436A		

* The colors listed are the basic ink shades only. Customized colors may be provided upon request.

APPLICATION AND COMPATIBLE MATERIALS

Nylon ink is usually used on water-proof nylon materials, such as umbrellas, jackets, tote bags, sail cloths, and also other synthetic leather products. This ink has a two component curing system, and nylon catalyst of around 10 to 15% is required to be added to promote excellent adhesion on the substrate. The ink must be used within 6 hours after opening, as it will harden and become a very viscous product. When it has high viscosity, the ink can no longer be used as its adhesion of the substrate surface is no longer good. Moreover, please refrain from opening the catalyst container widely, and instead open only a small hole on the container. This is done to refrain moisture from entering the container and causing the catalyst to harden.

SCREEN PRINTING PROCEDURE AND CLEANING

Varying mesh sizes may be used for different applications:

- For printing sharp and fine detailed objects, a fabric with 100 threads/inches is recommended.
- For high opacity printing, 77 threads/inches fabric must be used, given that it is a solvent resistant stencil.

To ensure best possible results:

- The screen mesh must be stretched with high tension to prevent occurrence of off-shoot.
- The squeegee must be 70 to 75 degrees shore and well-sharpened.
- The frame must be off-contact in order to achieve a well-detailed printing.
- The ink must be reduced with reducer depending on the environment condition. Usually around 10 to 20% of reducer is added.

For cleaning:

- Use solvent NQDR-1 for cleaning the screen mesh.
- Clean the screen after every use to avoid blockage of ink.

STORAGE

Nylon ink must be stored in a dry and well-maintained environment, with the temperature not exceeding 25 to 30 degrees Celsius. The product has a guaranteed shelf-life of up to one year from the date of manufacture, considering it remains undiluted in its original container.

HEALTH AND SAFETY

The product is considered non-hazardous when used in a safe working environment, following proper handling protocols and having a well-ventilated working area. For safety, ensure that the guidelines given in the Materials Safety Data Sheet (MSDS) is followed.

WARNING

The manufacturer, Perma Colour Inc., guarantees the quality of the product. All the stated information is given in good faith. The technical instructions given may serve as a guide, but the company does not guarantee nor promise specific results. The obtained results vary on other factors, including the operator's procedures and handling of the product. The company's responsibility is limited solely to the exchange of the ink or varnish product. Furthermore, in the use of the product for substrates not mentioned in this guide, it is recommended to conduct small-scale testing before mass production to ensure the compatibility of the ink.