



# Silk Screen Inks

## Products Information

[www.sabinecolors.com](http://www.sabinecolors.com)



## Nylonex Ink (NYE)

1/2

### PROPERTIES

NYE is an easy-to-dry, one/two-pack ink suitable for printing onto a variety of nylon (including many which have been treated for water resistance), polyester and some other synthetic fabrics. When completely dry, the ink film has excellent flexibility, adhesion and wash fastness. To enhance the adhesion, it is recommended that NYE be mixed with catalyst (see section on **Catalyst**).

### Instructions For Use

#### Thinning and Cleaning

- Stir well before use.
- NYE can be used without thinning, giving excellent opacity. However, for optimum adhesion 10-15% Thinning 5099 should be added.
- Retarder SSG13 can be used to make the ink dry more slowly when printing in a warm room or when using screens with high mesh counts.
- Cleaner C170 should be used to clean NYE from the screen. For heavy ink stains, Screen solve can be used. Please refer to the relevant P.I. Sheets for more information.

#### Printing

- NYE can be printed through any type of mesh, but for the best printing results it is recommended that P43-80 to P61-64 be used.
- NYE inks are suitable for both manual and automatic screen-printing.
- NYE can be printed through a variety of solvent resistant stencils, such as Diazol Universal PU (220), Diazol TX(600) and Polyzol DE(442).
- 1Kg of ink will print an area of 22-26 m<sup>2</sup> through a P61-64 mesh.
- A snap distance of about 2-3 mm is required for a good release of the print from the screen.
- Apply Spray Way SW82 all over the print table to firmly hold the substrate in place during printing. Due to the wide range of coatings available, it is advisable that the ink be tested fully prior to printing.

#### Catalyst

To enhance the adhesion, it is recommended that NYE be mixed with catalyst (NYL073) prior to printing in the following ratio: *NYE Ink:NYL073 = 20:1 (w/w)*. When catalyzed, NYE has a pot life of only eight hours, so only the amount required for printing should be mixed.

#### Drying

NYE inks dry rapidly through solvent evaporation. They will dry in about 15-30 minutes at room temperature, depending on the ambient temperature.

NYE can be dried in about 2 minutes at elevated temperature, but should not be dried above 100°C/212°F.

**Adhesion and Pre-Production Tests**

NYE has excellent flexibility, adhesion and wash fastness when used for printing onto nylon, polyester and some other synthetic fabrics. It has good adhesion to fabrics that have been treated for water resistance, but some waterproofing agents may cause poor adhesion in the short or long term. It is therefore recommended that NYE be catalyzed with NYE 073 to give optimum long term adhesion. For jobs that do not require high ink film opacity, use NYL073 to lower the viscosity of the ink, as it will penetrate the fabric better, giving better adhesion. Always fully test the ink before beginning a production run, as there is often considerable variation in fabrics from different manufacturers and even between different batches.

**Fastness**

NYE has excellent wash fastness to the ISO Tests No. 3 (60°C). When catalyzed NYE conforms to the United Kingdom Home Laundering Consultative Council Recommendation No. 2 (60°C) and has excellent resistance to dry cleaning. The ink should be tested for adhesion and resistance to dry cleaning prior to commencing the print run. The printed substrate should be left dry for at least 48 hours before testing.

**Solvents**

5099 Thinner  
SSG13 Fast Retarder  
SSG15 Medium Retarder  
SSG17 Slow Retarder  
SWT139S Cleaner

**STORAGE**

NYE inks should be stored in a sealed container between 5-25°C.

**SAFETY AND HANDLING**

NYE inks should be used with care. Wear suitable PPE, for example, appropriate gloves and safety glasses. Inks marked with a (T) contain heavy metals and should not be used for printing items that might be chewed by children. They are also harmful to the unborn child. All other colors comply with the following standards: Standard of the European Economic Community, the United Kingdom Toys (Safety) Regulation 1974, the Standard of Germany and French Toys Standard.

NYE inks are flammable and have a flash point of 51°C/124°F.

NYE catalyst ( NYL073) is flammable and has a flash point of 40°C/104°F.

NYL073 contains isocyanate and should not be used by persons suffering from bronchitis or asthmatics. Whilst working with the ink, the consumption of food and drink, and smoking are not recommended.

**ENVIRONMENTAL INFORMATION****NYE Inks:**

- Are formulated free from ozone depleting chemicals as described in the Montreal Convention.

**TECHNICAL SERVICE AND INFORMATION**

For further information or other relevant data, please do not hesitate to contact sabinecolors has a team of well-trained personnel who are ready to give help and advice regarding product information and application.