

SST SOLUBLE TONERS

DAY-GLO SST Soluble Toners are high strength; transparent fluorescent colorants designed for aqueous flexo and gravure applications. They have also found application in alcohol based ink systems.

DAY-GLO SST Soluble Toners are transparent and should be printed on white stock or over a white base ink to maximize the daylight fluorescent brightness. Flexographic press trials have shown that the SST Toners provide high fluorescent strength while maintaining excellent press speeds. Basic formulations that were used in the press trials are included in this bulletin.

Available Colors:

SST-11	Aurora Pink*
SST-15	Blaze Orange*
SST-17	Saturn Yellow*
SST-21	Corona Magenta*

Physical Properties:

Form:	Granular Powder
Specific Gravity:	1.23
Softening Point:	60°C Minimum (Fisher-Johns Melting Point Apparatus)
General Solubility:	Soluble in water/alcohol/amine blends.

SST Toner Blends:

SST Toners can be blended to achieve intermediate shades of color. For example, Corona Magenta, SST-21 can be blended with Aurora Pink SST-11 to achieve a warmer, more yellow shade magenta. Fluorescent green shades can be prepared by mixing Saturn Yellow SST-17 with an alcohol compatible aqueous green dispersion.

Lightfastness:

Inks made from DayGlo SST Toners are intended for indoor use only. They are not recommended for window use or outdoor exposure.

*Trademark of DayGlo Color Corp.

Recommended Starting Formulations:

The following formulations are recommended as a starting point for Flexographic inks in surface printing of porous substrates. Modification may be needed for individual applications.

Standard Water Based Flexo Ink

DayGlo SST Soluble Toner	30.0
Water	50.0
Isopropanol	11.0
24% Ammonium Hydroxide	4.0
Water	<u>5.0</u>
TOTAL	100.0

High Strength Water Based Flexo Ink

DayGlo SST Soluble Toner	45.0
Water	35.0
Isopropanol	15.0
24% Ammonium Hydroxide	<u>5.0</u>
TOTAL	100.0

Note: Individual ink formulations may require adjustment of water or alcohol/water blends to achieve proper printing viscosities.

High Strength Alcohol Based Flexo Ink

DayGlo SST Soluble Toner	50.0
Isopropanol	<u>50.0</u>
TOTAL	100.0

Note: The SST resin system is soluble in many different alcohols. Low viscosity inks with high resin solids can be easily formulated. Adhesion to many plastic and synthetic substrates is excellent.

Packaging:

Standard packaging is in 3.5 gallon plastic pails with a net weight of 22.06 pounds (10 kilograms).