

# Shidimo Interaux Pvt. Ltd.

## TEXTILE PRINTING & DYEING

The microfine particle size of Shidimo Fluorescent Pigments, ensure their dispersibility in textile binder using a high speed stirrer. Shidimo Fluorescent Pigments are suitable for kerosene binder printing paste and discharge printing paste. Shelf life of these paste being limited, it is advised that freshly prepared paste is used to get optimum output from Shidimo Fluorescent Pigments. Stability of Shidimo Fluorescent Pigments is high during the polymerization and finishing process ensuring consistently brilliant prints each time. Please ensure pH of printing binder paste is between 5 and 6 for optimum results and to avoid alkaline conditions during printing and finishing. We recommend use of 8 - 10% owp for manual screen printing and 13-15% owp for machine screen printing.

Kerosene Binder Stock Paste Recipe for Printing		Recipe for 10% owp	
Textile Binder (SLN)	10 Kgs	Total Stock Paste	86 Kgs
Water	10 Kgs	Fluorescent Pigment	10 Kgs
Urea	5 Kgs	Catalyst (DAP)	02 Kgs
Kerosene	75 Kgs	Fixer (CCL)	02 Kgs
<b>Total Stock Paste</b>	<b>100 Kgs</b>	<b>Total Paste</b>	<b>100 Kgs</b>

Stock Solution Recipe for Dyeing		Recipe for 2% Dyeing	
Textile Binder (SLN)	6.00 Kgs	Stock Solution	25 Kgs
Water	91.05 Kgs	Fluorescent Pigment	02 Kgs
Fixer (CCL)	0.20 Kgs	Textile Binder (SLN)	02 Kgs
Pidilite T.K.F.	2.75 Kgs	Water	71 Kgs
<b>Total Stock Paste</b>	<b>100 Kgs</b>	<b>Total Paste</b>	<b>100 Kgs</b>

## INKS

**Important instructions for using Shidimo Fluorescent Pigments for the manufacture of printing inks.**

- Triple roll grinding, ball milling, sand milling, attritoring and other heavy impact grinding methods should be avoided to prevent the deterioration of the fluorescence and brightness of the pigments.
- Please avoid heat generation during the process of high speed stirring for the preparation of a homogeneous dispersion in a liquid medium. Suitable emulsifiers and catalysts should be used for improved results. Solvent resistance chart as enclosed herein should be referred to avoid faulty preparations.

## PLASTICS

Shidimo Fluorescent Pigments can easily be used with low melting plastics in the range of 140-150°C. With the help of suitable catalysts and ensuring short exposure times, they can be utilized in PP within

the range of 180-200° c after suitable trials. Please disperse Shidimo Fluorescent Pigments uniformly in the granules when using extrusion methods and it is recommended that suitable plasticizers be used to improve uniform dispersion in plastic resin.

#### PAPER COATING

Special Shidimo Fluorescent Pigments have been developed to keep up with the trend of using fluorescent coated papers.

RUBBER (LATEX) Special Shidimo Fluorescent Pigments have been developed to cater to the Latex industries.

#### SOLVENT RESISTANCE (Bleeding In Solvents)

Solvent	Rating	Solvent	Rating
Water	3	Kerosene	3
White Spirit	3	Xylene	3
Toluene	3	D. O. P	3
N - Hexane	3	Linseed Oil	3
Naphtha	3	D. B. P	2 - 3
Methanol	2	I. P. A.	2
Ethyl Acetate	2	Amyl Acetate	2
M. I. B. K.	2	Cellosolve	1
Acetone	1	Methyl Cellosolve	1
N - Betanol	1	Cyclohexane	1
Isophorone	1		

1 Considerable

2. Partly or Slight

3. None

#### SPECIFICATIONS

- Average Particle Size : 3 - 4 microns
- Bulk Density : 0.55 - 0.65 gms/cc
- Softening Temp : 120- 130°c
- Decomposition Temp : 190- 200°c
- Refractive index : 1.6
- Specific gravity : 1.3- 1.4
- Free Formaldehyde : Not Detected
- Oil Absorption : 50 gms /100 gms of pigment

The information submitted in this publication is based on our current knowledge and experience. The information is provided in good faith and without liabilities.