

SHIDIMO

FLUORESCENT PIGMENTS

• TEXTILE PRINTING & DYEING

The microfine particle size of Shidimo Fluorescent Pigments, ensures their dispersibility in textile binders using a high speed stirrer. Shidimo Fluorescent Pigments are suitable for kerosene binder printing pastes and discharge printing pastes. Shelf life of these paste being limited, it is advised that freshly prepared pastes are 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)	10.00 kgs.	• Stock Paste	86 kgs.
• Water	10.00 kgs.	• Fluorescent Pigment	10 kgs.
• Urea	5.00 kgs.	• Catalyst (DAP)	2 kgs.
• Kerosene	75.00 kgs.	• Fixer (CCL)	2 kgs.
Total Stock Paste	100.00 kgs.	Total Paste	100 kgs.

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	2 kgs.
• Fixer (CCL)	0.20 kgs.	• Textile Binder (SLN)	2 kgs.
• Pidilite T. K. F.	2.75 kgs.	• Water	71 kgs.
Total Stock Paste	100.00 kgs.	Total Paste	100 kgs.

• INKS

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

1. Triple roll grinding, ball milling, sand milling, attritoring and other heavy impact grinding methods should be avoided to prevent the deterioration of the fluorescences and brightness of the pigments.
2. 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 are 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 RESISTENCE (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 – Butanol	1	Cyclohexanone	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.

SHIDIMO INTERAUX PVT. LTD.

S. No. 245/A4, Surat – Navsari Highway, Lajpore – 395234

Dist. Surat, Gujarat. India

Telefax: +91 261 2392260