

SPECIALTIES

PREFACE

Zydex offers eco solutions for above special effects on printing. The summary of different products used for these applications is given below:

	FOIL / TRANSFER	GLITTER	GLITTER (ALFA SERIES)	HIGH DENSITY	PUFF
Product (s)	K2 Foil / Transfer Adhesive, K2 Foil Transfer Adhesive (T.G.)	Table K2 Glitter(Tg)	Machine K2 Glitter (Alfa series)	K2 HD	K2 / K2 Opaque + K 2 Puff Base
Nature of product	Acrylic copolymer	Acrylic copolymer	PU Based Polymer	Acrylic copolymer	Acrylic copolymer / Vinylidene chloride based polymer (puff Base)
Appearance	Off White	Off White	Translucent Whitish	Off White Paste	Off White Paste

QUALITY ASSURANCE TO RETAILERS:

- Cheaper specialties show very poor stretch, loss of softness & smoothness after 5 washes. For a customer, maintaining the printed portions like the original ones critical for wearability of the garments.
- Our products will show almost 90% retained performance in terms of stretch, smoothness & softness like the original print after 5 standard wash cycles.

FOIL PRINTING:

PRODUCT ATTRIBUTES

Selective foil printing is possible with K2 Inks unlike plastisols where full coverage with foil is only possible.

The foil would not stick to cured K2 inks under pressure. Addition of K2 Matt: Matting agent also **helps to avoid sticking**.

This would allow the printer to create selective areas printed with a K2 Foil/Transfer adhesive with foil creating an integrated design of foil & regular print.

APPLICATION

SCREEN MESH	TINTING	PRINTING	FOIL APPLICATION	PEEL OFF (PAPER)
48T/ 34T	Pigment Colour Same as Foil Paper	2 Strokes + Flash Touch Dry	Apply 5 6 bar pressure on printed portion & 170°C180°C on fusing m/c for 8 – 12 sec	Remove the foil paper after it thoroughly cooled.

GLITTER PRINTING:

Zydex offers 2 types of products in Glitter Printing:

1. **K2 Glitter**
2. **K2 Glitter (Alfa Series)**

For Glitter Printing, Zydex launched new generation of K2 Glitter (Alfa Series) Product to get:

- Softer feel
- Fine line Printing
- To avoid Yellowness of the Printing after Curing.
- To avoid Peel off problem after washing during over printing of Glitter.

APPLICATION

Lot of issues occur in glitter printing due to use of Wrong Meshes & Application.

To prepare glitter paste, add glitter/pearl powder in **K 2 Glitter/K2 Glitter (Alfa series)** under stirring slowly, to avoid lump formation.

Typically 15–20% of glitter powder of the total formulation gives optimum results.

GLITTER PARTICLE SIZE	MESH SIZE		TYPE OF SQUEEGEE	TINTING	NO. OF STROKES
	1st Screen	2nd Screen			
0.004	34T	28T	Bull Nose	Pigment Colour	2
0.008	34T	23T		Same as Glitter Colour to Gel	2

TROUBLE SHOOTING:

Due to acidic nature of K2 Glitter/ K2 Glitter (Alfa Series), during drying and curing conditions many metallic powders (Uncoated) can show tendency of blackening. It is recommended to check the metallic powders for the above and it is recommended to use lacquer coated metallic powders.

HIGH DENSITY:

	MESH	RECIPE	NO. OF ROUNDS	TYPE OF SQUEEGEE
Base Coat & Top Coat	55 T	80% Clear + 20% Ink	1	For Base Coat use Normal Squeegee & for Top Coat use Hard Squeegee & Print once slowly to get sharp edge effect.
Middle Coats	55 T	K2 HD	7 (Mild flash after each round to get touch dry)	Normal

PUFF PRINTING:

APPLICATION

Basically puff printing is done to get 3D (raised) effect. There are two methods for two different types of options:

	WITH	RECIPE	CURING
Coloured Shade	K2 Puff Base	Mixture of K2 Clear/ K2 Inks & K 2 Puff Base are mixed in 80:20 proportions & stirred well for 57 minutes.	dried & cured at 150°C for 3 min.

TRANSFER PRINTING:

APPLICATION

Mesh	Procedure
30T40T	<ul style="list-style-type: none"> • Print Transfer Paper with K2 Opaque colour by colour. Dry it properly. • Print with 30T40T the same paper with complete coverage of K2 Foil/ Transfer Adhesive & Dry it Properly. • Transfer the same from paper to fabric at 5 6 bar pressure & 170°C 180°C on fusing m/c for 8 – 12sec.

TIPS FOR RSL COMPLIANCE:

1. The spatulas, screens, stirrers, containers, squeezes etc. that are used for plastiso links need to be avoided to prevent contamination and rejection of garments on eco issues.
2. Printing sections for water based & plastisols should be segregated completely.
3. All other chemicals & accessories used in print shop like beads, emulsions, thinners, degreasing chemicals, adhesives, etc. should be RSL compliant.

STORAGE & SHELF LIFE

- Do not store in direct sun or at a temperature higher than 45°C.
- Always keep the lid closed after withdrawal of material from the can.
- Minimum shelf life of the product is 1824 months.
- For extended storage, once the can is opened, pour 50 gms of water on the top surface and then close the lid tightly.

DISCLAIMER

The information & data contained herein are given in good faith but without warranty. We recommend that before using our products, the customer should make his/her own tests to determine the suitability of the products for his/her own purpose under his/her operating conditions. As the circumstances under which our products are stored, handled and used are beyond our control, we cannot assume any responsibility for their use by the customers.

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