

RAN 5000 TSP, RAN 5000 BLACK TSP

DESCRIPTION

Zydex offers complete package for Pigment printing on Apparels which allows the printer to get the required properties like Brilliancy, Fastness and Feel etc.

In Pigment Printing, Paste Cost is hardly 5% of the Total Cost of Printing. But due to use of In house Paste the rejection cost is increases up to 3 to 5% of the Garment Manufacturing Cost. In house paste have problems of Water Quality, variation in Binder & Thickener Quality via stirring equipment (High RPM) etc. which leads to Poor Quality of in house Paste. To overcome this problem, Zydex Offers Ready to Use Paste. These Pastes are slightly higher in per kg. Cost compare to In house Paste Cost.

READY PASTES: We offer ready to use pigment-printing pastes (For Automatic, Semi – Automatic m/c & table Printing) suitable for different shade depths.

The different versions of these pastes are as follows:

Product	Max. % shade	
Ran-5000 TSP*	2 – 6 %	Medium & Dark Shades*
Ran-5000 Black TSP**		Jet Black Shade

Direction for achieving super dark shade using:

In case of special colors like Red, Navy Blue & Black (10% shade) it is advisable to add 10 – 15% binder to the paste(viz. Zytrol 600 available from Zydex) to achieve excellent wash fastness.

**In house manufacture of Black Coloured Pastes have problem of Jelling & Fastness, to solve this we have launched ready to use Black Printing Paste.

PRODUCT ATTRIBUTES

- **GOTS** Certified
Thus can be used in manufacturing of Organic Cotton Based apparels.
- **Complies with OekoTex 100 Standards for Baby wear*** category & RSL Limits of major brands.
- **Specially designed for garment prints:** It will allow to do flat, photo prints which are feel-less & printable up to 120T mesh.

ADVENTAGES

- No fixers are required (In Normal Cases)
- By using Uniform quality of printing paste, you can achieve uniform printing over long run

FABRIC RELATED ISSUES:

Improper Viscosity of the Pastes:

1. **Backside Penetration (in Cotton):** If not controlled generates maximum value loss for the printer & the final retailer due to following:

- **Harsh Feel:** making the end product not comfortable to end consumer.

Ready to use pigment printing pastes due to Standard Viscosity* address these problems by achieving surface printing leading to higher coverage & hence softer feel.

2. **Bleeding (on synthetics):** Most of the water based thickeners lead to bleeding on polyester rich blends whereas Zydex Ready to use Paste due to their 100% bound water gives sharp printing.

SPECIFICATIONS

Appearance	RAN 5000 TSP White Paste	RAN 5000 BLACK TSP Black
Bulk Viscosity	15000 ± 3000 cps	

PRINTING TECHNIQUE:

- "Wet-on-Wet" Use finer mesh (>77T)

Note:

Normally Lot of Printers use only 140 to 160 mesh for Pigment Printing which lead to thicker film deposition, Poor Drying, Poor Curing so it is very important that critical attention is paid to mesh selection for every Job.

- **Off contact:** It is desirable to have off contact of min 2 mm (between fabric & screen).
- **Squeegee:** Soft Squeegee with shore hardness no. 60/90/60 is preferred.
- **Drying:** is done at 110°C for 4 – 5 minutes.
- **Curing:** The dryer temperature setting should be 150°C for 3 minutes.

COMPLIMENTARY PRODUCTS & ITS PACKING:

PRODUCT	APPLICATION	PACKING
Ran 5000 TSP & RAN 5000 Black TSP	Ready to Use Paste	50 kg HMHDPE polycan
Zycoprint	Thickener	65/30 kg HMDPE drums
Zytrol 600	Binder	35 kg HMHDPE polycan
R-55	Softener	4 kg. /25 kg HMHDPE drums
R-66	Additive for brilliancy & leveling blotches	4 kg. /30 kg HMHDPE drums

STORAGE & SHELF LIFE

- Do not store in direct sun or at a temperature higher than 45 degree Celsius
- Always keep the lid closed after withdrawal of material from the can.
- Minimum shelf life of the product is 18-24 months.

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.