



PRODUCT INFORMATION

ECOSOL E1

GENERAL INFORMATION

Ecosol E1 is non PVC, Phthalate and Formaldehyde high solid content, waterbase thermoplastic acrylic. It was design as a "Plastisol simulated" acrylic emulsion paste ink. Ecosol E1 System is an excellent product for use for printing depth dark shade on light color fabrics where excellent finish, elastomeric and soft hand feel are required. Motive printed with Ecosol will have excellent elastomeric properties, good washing fastness properties, good crocking properties and high color brilliancy. Ecosol E1 System consists of White, High Opaque Base, and Clear. Printers are recommended to match colors using Cassee Pigments concentrated colors for optimum colors and performance.

TYPE OF FABRICS

Cotton, Blends Cotton Polyester and some stretchable Cotton /Nylon.

*** ALWAYS PRETEST FASTNESS PROPERTIES BEFORE PRODUCTION. ***

APPLICATION TIPS

Base White

Ecosol E1 White is recommended to be use direct from the can as underbase white.

Color Mixing

Always use Ecosol E1 Opaque Base in color matching. Commonly 10 to 15% of Cassee Pigments are used to achieve desire color. High glossy color can be achieved by using Ecosol E1 Clear. Use small dosage of Ecosol E1 White when opacity and pastel color effect are required.

The Ecosol E1 System, are produce by re-emulsifying latex and by itself Ecosol E1 will air dry (especially under the variable of low humid and high temperature). Always use waterbase mode on your automatic printer as this will flood the open screen after print and eliminate screen drying and complication in the printing process. Spraying a mist of water onto Ecosol E1 will prevent ink drying and also prolong open screen time. In certain occasion, mixing small dosage (2 to 5%) of Lubricant DP into the ink will be beneficial as this will increase the ink evaporating rate or slow down the drying speed of Ecosol E1.

To achieve excellent opacity, elasticity on rib or stretchable fabric the below precaution are to be follow.

- 1.) Always lay down higher deposit of ink by using lower mesh count screen, rounded squeegee and soft table.
- 2.) Print the mix ink onto the stretchable fabric following the direction of the fabric grain.
- 3.) Cure at the optimum temperature and do not stretch fabric while fabrics are hot.

Note: It is important to stir well the ink prior using the product. Lids must be kept on the containers at all times.

TYPE OF STENCIL & MESH

Printers are advice to use only water resistant, direct in direct emulsion. Avoid using screen hardener or enhancer, as this product will also react with the resin in the ink system and speed up the filming process.

Mesh Type

32T~43T mono-filament for Metallic, Glitter, and Shimmer.

49~52S mono-multi filament for under base white.

77~120S mono-multi filament for detail print or for out line and tone on fabric

SQUEEGEES AND PRINTING TABLE.

55/65 sore hardness :For excellent opacity on printing under base white, are recommended.

65 sore hardness :For wet on wet for multi color printing.

75/85 sore hardness :For detail and fine toning effect.

CURING CONDITION.

For maximum fastness, prints are to be cure at 150°C/302°F. Airflow recommended is 1500 cfm/ 46cmm for 2 minutes.

PACKING AND STORAGE

20 liters Ropac Pails : 25 kgs for White, 20 kgs for OP & 20 kgs for Clear.

200 liters Metal Drums : 250 kgs for White, 200 kgs for OP & 200 kgs for Clear.





CSC Screen Process Supplies Sdn. Bhd.

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Always store ink under shade and away from direct sunlight.

HANDLING, TOXICITY & HAZARD

Ecosol E1 System are total green with meets E1 standard of safety requirements, it is nonvolatile (waterbase) and was made from material that is non carcinogenic and non environmental hazard.

OTHER IMPORTANT TIPS.

Always use Waterbase mode in using Ecosol on an Automatic press. Always flood screen when completed every printing stroke, this is to prevent ink from drying on screen. Avoid using too high temperature on flashing under-base white and make sure flash cure are air ventilated.

Hardener EX Plus are recommended for heavy washing performance required and CBA II are recommended for critical crocking fastness on high PVC (Pigment Volume Concentrate) was used

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