



## **PRODUCT INFORMATION**

### **ECOSOL E1 CLEAR**

#### **GENERAL INFORMATION**

Ecosol E1 CLEAR is a Varnish or Transparent base of our hybrid of waterbase thermoplastic acrylic with silicones which meets our E1 compliance. It is an excellent product for use of light color fabrics where excellent finish, excellent color contrast, excellent color saturation, excellent elastomeric and soft hand feel are required. Motive printed with Ecosol E1 Clear will have excellent elastomeric properties, good washing fastness properties, good crocking properties and high color brilliancy. Ecosol E1 Clear are recommended to match colors using Cassee Pigments concentrated colors for optimum colors and performance. Using Ecosol E1 Clear as top coat overprint will create a high varnish print on either white or dark fabric.

#### **TYPE OF FABRICS**

Cotton, Blends Cotton Polyester and Polyamide with some stretchability syntactic fabric.

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

#### **APPLICATION TIPS**

##### Top- Coat

Ecosol E1 Clear is recommended to be use direct as top-coat varnish.

##### Color Mixing

Always use Ecosol E1 Opaque Base in color matching. Commonly 5 to 8% of Cassee Pigments are used to achieve desire color. High glossy color can be achieved by using Ecosol E1 Clear.

Using Ecosol E1 Clear as first-down underbase, will improve stretchability for over printing of high opacity and pastel color effect

##### Application

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 Clear will prevent paste drying and also prolong open screen time. Small dosages (3 to 5%) of deionized water into the paste will be beneficial to reduce the paste viscosity and slow down the drying speed of Ecosol E1 Clear.

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

- 1.) Always lay down higher deposit of paste by using lower mesh count screen, rounded squeegee and soft table.
- 2.) Print Ecosol E1 Clear onto the stretchable fabric following the direction of the fabric grain.
- 3.) Cure to the optimum temperature and do not stretch fabrics while fabrics are hot.

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

#### **TYPE OF STENCIL & MESH**

Printers are advised 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 paste 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 clear or varnish top coat.

77~200T mono-multi filament for detail print or for outline and tone on fabric

#### **SQUEEGEES AND PRINTING TABLE.**

55/65 shore hardness bevel type	:For excellent elasticity on printing under base clear, are recommended.
65 shore hardness bevel type	:For wet on wet for multi color printing.
75/85 shore 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.





# CSC Screen Process Supplies Sdn. Bhd.

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## **PACKING AND STORAGE**

20 liters Ropac Pails : 20 kgs for Clear.  
200 liters Metal Drums : 200 kgs for Clear.

Always store paste under shade and away from direct sunlight.

## **HANDLING, TOXICITY & HAZARD**

Ecosol E1 Clear is completely green which meets the E1 standard of safety requirements, it is nonvolatile (waterbase) and was made from material that is non-carcinogenic and non-hazardous to the environment.

## **OTHER IMPORTANT TIPS**

Always use Waterbase mode in using Ecosol E1 Clear on an Automatic press. Flood screen when every printing stroke is completed to prevent paste from drying on screen. Avoid using too high a temperature on flashing under-base white and make sure flash cure are air ventilated.

CBA EV at 2 to 3% are recommended if heavy washing performance is required without curing for heat sensitive fabric. CBA NF is recommended for critical crocking fastness on high PVC (Pigment Volume Concentrate).

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