



## **PRODUCT INFORMATION**

### **ECOSOL E1 WHITE**

#### **GENERAL INFORMATION**

Ecosol E1 White is a new generic of non PVC, non-Phthalate and Formaldehyde free high solid content, white colored hybrid of waterbase thermoplastic acrylic with silicones which meets our E1 compliance. It was designed as a “Plastisol simulated” hybrid high solid white waterbase paste. Ecosol E1 White System is an excellent product for use of printing as underbase white or top coat white with excellent opacity on color fabrics to dark fabric where excellent smooth finishing print, excellent elastomeric and excellent soft hand feel are required. Motive printed with Ecosol White will have excellent elastomeric properties, good washing fastness properties, good crocking properties and high color brilliancy.

#### **TYPE OF FABRICS**

Cotton, Blends Cotton Polyester, Polyester and stretchable Polyamide.

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

#### **APPLICATION TIPS**

##### **Base White**

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

Use Ecosol E1 White in conjunction with Ecosol E1 Opaque Base and Ecosol E1 Clear for color matching. Commonly 5 to 8% of Cassee Pigments are used to achieve desire color. Use Ecosol E1 White for high hue bluish tone white directly for top coat white if desire.

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 White will prevent paste drying and also prolong open screen time.(during break interval)

In low moisture (below 30% humidity), mixing small dosages (2 to 5%) of Lubricant DP into the paste will be beneficial as this will reduce the paste 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 followed.

- 1.) Always lay down higher deposit of paste by using lower mesh count screen, rounded squeegee and soft table.
- 2.) Print the mix paste 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.
- 4.) You may use underbase clear at about 60µm emulsion thickness prior overprinting with Ecosol E1 White at 100µm emulsion thickness to obtain excellent elasticity on highly stretchable fabric.
- 5.) Wet on wet printing are achievable (depending on your design surface area.)

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~46T mono-filament for highly stretchable fabric as underbase white.

49~52S mono-multi filament for under base white for high opacity on single jersey knit fabric.

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

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

- |                     |                                                                       |
|---------------------|-----------------------------------------------------------------------|
| 45/90/45 triplet    | :For excellent opacity on printing under base white, are recommended. |
| 55/90/55 triplet    | :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.





# CSC Screen Process Supplies Sdn. Bhd.

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## **PACKING AND STORAGE**

20 liters Ropac Pails : 25 kgs for White  
200 liters Metal/HDPE Drums : 250 kgs for White

Always store paste under shade and away from direct sunlight.

## **HANDLING, TOXICITY & HAZARD**

Ecosol E1 White 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 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 NF is recommended for critical crocking fastness on high PVC (Pigment Volume Concentrate).

CBA EV is recommended for heat sensitive fabric as it can totally replace oven curing at 5% by weight, it is also recommended if heavy washing performance is required.

Info: 20.10.20

