



PRODUCT INFORMATION

GENESIS E1 SYSTEM

GENERAL INFORMATION

Genesis E1 System is an acrylic core shell high opaque, ready for use water base ink that can be screen or roller printed. It is an excellent product for use on dark color fabrics where maximum opacity is required. In addition it can be used for applications where ultimate fastness properties are required, such as for denim, upholstery etc. Genesis E1 ink can even be printed on certain types of water-repellent fabric included nylon with good washing fastness and adhesion. Crocking (wet and dry) fastness for printed Genesis ink will show excellent result [4-5]. Genesis E1 System consists of Genesis E1 White, Genesis E1 OP Base, Genesis E1 Clear, Genesis E1 Graybase, Genesis E1 Flockbase and 7 different Genesis E1 Chrome colors.

TYPE OF FABRICS

Cotton, Blends Cotton Polyester, Blend Rayon Polyester, Rayon, Denim, Polyester, some Vinyl and some Nylon.

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

APPLICATION METHOD

White

Genesis E1 White HO can be used direct from the can for maximum opacity on dark ground fabric.

Color

To achieve maximum opacity on dark fabric, 1 parts of Genesis E1 White HO white are to be added to 8 parts of Genesis E1 OP Base, with one part of Cassee concentrated pigment are added for to achieve the desire color. Cassee Pigments are added up to 20 % by weight for the desire color.

TYPE OF STENCIL & MESH

Used only water resistant, direct in direct emulsion.

Contact your emulsion supplier for water resist emulsion

32T/80T mono-filament for high opacity.

49S/120S mono-filament for soft hand with medium opacity.

54T/135T mono-filament for detail print or for out line and tone

69S/180S to 90T/220T for fine detail on smooth knitted material.

77T/200T to 120T/305T for detail on woven material

SQUEEGEES AND PRINTING TABLE.

For maximum opacity 55/65 shore hardness squeegee are recommended. Soft tables are most suitable. We will suggest that a silicon rubber, are to be place on top of the printing pellet to improve the printing table hardness.

For detail printing used middle hardness range (65 /75 shore) sharp squeegee.

DRYING AND POLYMERIZATION.

For maximum fastness, prints are to be cure at 150°C/302°F for 3 minutes Air flow recommended are 2000 cfm/56 m³/min for proper polymerization.

PACKING AND STORAGE

Genesis E1 System products are pack in 20 liters packing as well as 200 liters drum.

Always store ink under shade at below 35°C /95°F. This product should not be prolonging to exposure to frost or below 0°C /32°F.

HANDLING, TOXICITY & HAZARD

Genesis E1 System is total green with meets E1 standard on all RSL regulatory. Genesis E1 System is non-volatile (waterbase). Genesis E1 System is made using renewable power (Power by Solar) and from material that is non-carcinogenic and non-environmental hazard.



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OTHERS IMPORTANT TIPS.

We suggest to always flooding screen with ink when completed every printing stroke to prevent ink from drying on screen.

****Avoid printing detail immediately after flash curing.****

Flash curing temperature required is 220°C/428°F for 6 seconds.

To achieve excellent fastness you might need to add Catalyst Binding Agent up to a maximum of 3 % by weight.

If dryer are not available, add Cold Cure Catalyst AS100 up to a maximum of 2 % by weight. (Adding AS100 will increase the hand feel of your print.)

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