



PRODUCT INFORMATION

CRACKING AF SYSTEM

GENERAL INFORMATION

Ecosol E1 Cracking is a new innovation on cracking print effect of our generic of non PVC, non-Phthalate and Formaldehyde free high solid content, hybrid of waterbase thermoplastic acrylic with silicones which meets our E1 compliance. Ecosol E1 Cracking White is a high opaque white and Ecosol E1 Cracking Clear is translucent in color. These are ready for use water base Ecosol E1 Cracking ink that can be screen printed immediate out of its can. Ecosol E1 Cracking White is an excellent product for use on dark fabrics where maximum opacity with cracking finish is required, where else Ecosol E1 Cracking Clear can be used in conjunction with a wide range of waterbase pigment concentrated to achieve desire colors of crack print. In general, washing properties for Ecosol E1 Cracking Series are good.

TYPE OF FABRICS

Cotton and Blends are recommended.

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

APPLICATION METHOD

White Cracking

- Print a base using Ecosol E1 System (White or Color) to form a plastic surface onto your garment.
- Over print with Ecosol E1 Cracking White till desire thickness.
- Ecosol E1 Cracking will crack upon flashing.

Color Cracking

- Print a base using Ecosol E1 System (White or Color) to form a plastic surface onto your garment.
- Over print with cracking paste (Mixture of Ecosol E1 Cracking White, Ecosol E1 Cracking Clear and Pigments)
- Intermediate dry each color by flash with good air flow.
- The print crack with flash cure with air flow.
- Cure print using a conveyor to achieve good fastness properties.

TYPE OF STENCIL, TENSION & MESH

Used only water resistant, direct in direct emulsion.

43S/110S ~49S/120S mono-filament at 30 Newton.

39T/100T~51T/130T mono-filament at 30 Newton with emulsion thickness of 200µm.

SQUEEGEES AND PRINTING TABLE.

For maximum opacity 50/60 durometer hardness squeegees are recommended for underbase. To achieve an excellent cracking effect, use 45/55 durometer hardness squeegees.

DRYING AND POLYMERIZATION.

All underbase should be touch dry prior laying down the Ecosol E1 Cracking paste.

Final drying and cracking are suggested at 150°C/302°F for 90 seconds with Airflow recommended are 2000 cfm/50cmm for proper polymerization.

OTHERS IMPORTANT TIPS.

Off contact screen are strongly recommended for printing cracking effect. Multiple print strokes will improve the cracking effect pattern. The thicker the ink deposit the bigger the crack will be. Low ink deposit will cause a “small and smashing” cracking look for the final print look.

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