



PRODUCT INFORMATION

ELASTIPRINT 414 SYSTEM

GENERAL INFORMATION

Elastiprint 414 consist of Elastiprint 414 White, Clear and Opaque Base, This system is a high opaque with super elastomeric white, 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. Elastiprint 414 has good fastness properties on certain water-repellent fabric such as repellent nylon, repellent hybrid cotton or polyester (Coated), and coated denim. Crocking fastness (wet and dry) for printed Elastiprint 414 have excellent result [4-5] if proper application method was applied.

TYPE OF FABRICS

Cotton, Blends, Blend Rayon Polyester, Rayon, Polyester, some Stretchable Nylon.

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

APPLICATION METHOD

White

Elastiprint 414 White can be used direct from the can for maximum opacity on dark ground fabric.

For excellent whiteness and super elasticity on high stretchable fabric, 100% Elastiprint 414 White are recommended as the underbase white.

Color

To achieve maximum opacity on dark fabric, 7 parts of Elastiprint 414 Opaque are to be added to 3 parts of Elastiprint 414 White, with one part of concentrated pigment are added for to achieve the desire color. In normal application where opacity are required, Elastiprint 414 Opaque Base are added up to 10% of Cassee Pigments Concentrated for the desire color. Jet Black is achievable by only adding of Elastiprint E1 Clear with the desire Cassee Pigment concentrated.

TYPE OF STENCIL & MESH

Used only water resistant, direct in direct emulsion. (Call your emulsion supplier for water resist emulsion)

32T mono-filament for high opacity and excellent stretchable.

49T mono-filament for soft hand with medium opacity and stretchable.

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

SQUEEGEES AND PRINTING TABLE.

For maximum opacity 55/65 sore hardness squeegees 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 sore) sharp squeegee.

PROCESS AND APPLICATION

To achieve excellent elasticity on stretchable fabric the below precaution are to be follow.

- 1.) Always lay down higher deposit of ink by using causer mesh (#32/80), rounded squeegee (55 sore)and soft table.
- 2.) Print the mix ink onto the stretchable fabric following the direction of the fabric grain.
- 3.) Cure to the optimum temperature (150°C/302°F) and do not stretch fabric while hot.
- 4.) Use a higher dosage of Clear where high elastomeric are required.

DRYING AND POLYMERIZATION.

For maximum fastness, prints are to be cure at 150°C or 302°F for 60 seconds with Airflow recommended is 1500 cfm/ 42 cm³m.

Elastiprint 414 will also be room temperature cure by adding Catalyst AS100 with acceptable fastness properties.

PACKING AND STORAGE

Elastiprint 414 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.



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HANDLING, TOXICITY & HAZARD

Elastiprint 414 System is total green with meets E1 standard on all RSL regulatory. Elastiprint 414 are non-volatile (waterbase). Elastiprint 414 is made using renewable power (Power by Solar) and from material that is non carcinogenic and non environmental hazard.

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 acceptable fastness properties 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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