

DRY PRINTING SYSTEM FOR LEATHER

Reco K.K., 2006



Overview

The Dry Printing System for Leather enables high efficiency printing on leather with the hand printing method (shown in the photograph). Unlike conventional printing systems, no steaming or surface treatment is needed, simplifying production and increasing efficiency.



Sample Denim Pattern



This photograph shows a sample printed with a denim pattern on natural leather using the Dry Printing System. The details on the following slide describe possible print recipes and colourants for natural leather and auxiliaries.

Print Recipes for Natural Leather

LE Colour (colourant for natural leather, liquid)

LE-40A (emulsion)

Use together

ITEMS

The items of printing paste LE-40A

Name	Light fastness	Rubbing fastness
Flavine G	4-5	4
Yellow R	4	4
Orange NG	4	3-4
RedNB	4	3-4
Brown NG	4-5	3-4
Turq. Blue NG	2-3	4
Blue NG	3	3-4
Navy Blue NG	3	3-4
Black 3NB	3	3-4

LE Colour (liquid)

	2.5%	5%	10%
Flavine G			
Yellow R			
Orange NG			
RedNB			
Brown NG			
Turq. Blue NG			
Blue NG			
Navy Blue NG			
Black 3NB			

Light fastness test: carbon arc 10h

Rubbing fastness test: Gakushin-type, wet rubbing
D.C. (Petroleum-based, chlorine-based): above the level of Grade-4

Washing (A-2 method): above the level of Grade-4
Each fastness is after cover printing with Pritron F-UP.

Details of the fastness test

Leather tested Grain side of leather and suede

Print concentration 10%

Print recipe	LE-40A	80
	LE Color	0-10
	Water	5-15
	Catalyst F	5
		100

Printing test conditions= hand screen printing, #800 mesh screen, double squeegeeing and baking at 150°C x 3 mins for fixation.

PRINTING PASTE

LE-40A (milky emulsion), Slightly acidic (pH4.5-5)

Features & Directions for Use

FEATURES

Using LE-40A in combination with LE Colour, the Dry Printing System is capable of producing fast and brilliant printing effects that conventional leather printing systems are incapable of yielding.

The Dry Printing System requires no soaping, making processing easier. The addition of 3-5% Catalyst F results in a significant increase in fastness (potlife of 24 hours).

Following the use of LE-40A and LE Colour, further fastness can be achieved by cover printing with Pritron T-UPK, and finally by dry-heat treatment at 130°C for 5 mins or 150°C for 3 mins.

EXAMPLE OF A BASIC RECIPE

LE-40A	80
LE Colour	0—10
Water	5—15
Catalyst F	3—5
	100

BASIC PRINTING PROCESS

