JCOVAT™

Micro Disperse Vat Paste

Shade Catalogue

Printing colour references on cotton fabric



20 shades

Compare each shade at its labelled concentration. Higher concentration appears on the left at 8% and lower concentration on the right at 4%.

Yellows Reds and Violets • Blues Greens and Earth Tones

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Yellows Reds and Pinks

Paired cotton swatches • Higher concentration 8% left • Lower concentration 4% right

01 JCOVAT
Yellow GCN Paste
Micro Disperse Paste



02 JCOVAT
Golden Yellow GOK Paste
Micro Disperse Paste



03 JCOVAT
Orange RF Paste
Micro Disperse Paste



04 JCOVAT
Scarlet MGCN Paste
Micro Disperse Paste



05 JCOVAT
Pink R Paste
Micro Disperse Paste



06 JCOVAT
Pink R3B Paste
Micro Disperse Paste



07 JCOVAT
Red Violet RRN Paste
Micro Disperse Paste



JCOVAT Colour at a glance

Violets Blues and Greens

Paired cotton swatches • Higher concentration 8% left • Lower concentration 4% right

08 JCOVAT
Violet 2R Paste
Micro Disperse Paste



09 JCOVAT
Blue 4B Paste
Micro Disperse Paste



10 JCOVAT
Indigo 4G Paste
Micro Disperse Paste



11 JCOVAT
Green FFB Paste
Micro Disperse Paste



12 JCOVAT
Green FFB Paste (N)
Micro Disperse Paste



13 JCOVAT
Green 2G Paste
Micro Disperse Paste

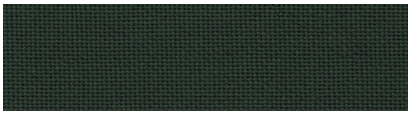


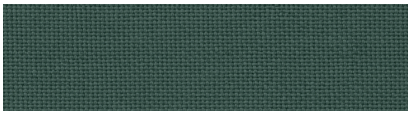
JCOVAT Colour at a glance

Earth Tones Greys and Blacks

Paired cotton swatches • Higher concentration 8% left • Lower concentration 4% right

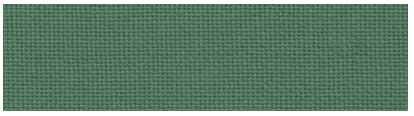
14 JCOVAT
Olive Green B Paste
Micro Disperse Paste


8%


4%

15 JCOVAT
Olive Green B Paste (N)
Micro Disperse Paste


8%


4%

16 JCOVAT
Khakhi 2G Paste
Micro Disperse Paste


8%


4%

17 JCOVAT
Brown RRD Paste
Micro Disperse Paste


8%


4%

18 JCOVAT
Grey 3B Paste
Micro Disperse Paste


8%


4%

19 JCOVAT
Black BG Paste
Micro Disperse Paste


8%


4%

20 JCOVAT
Black BB Paste
Micro Disperse Paste


8%


4%

JCOVAT Colour at a glance

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Shade Fastness Reference

Light, Washing and Chlorine ratings

The reference numbers correspond to the paired shade pages.

Shade	Light	Washing	Chlorine
01 Yellow GCN Paste	4-5	5	5
02 Golden Yellow GOK Paste	5-6	4	5
03 Orange RF Paste	5	4	4-5
04 Scarlet MGCN Paste	5-6	4-5	4-5
05 Pink R Paste	6	4-5	5
06 Pink R3B Paste	5-6	4-5	5
07 Red Violet RRN Paste	6	4-5	5
08 Violet 2R Paste	6-7	5	5
09 Blue 4B Paste	5	5	3-4
10 Indigo 4G Paste	4	3-4	3-4
11 Green FFB Paste	7	5	5
12 Green FFB Paste (N)	7	7	5
13 Green 2G Paste	5	4	4-5
14 Olive Green B Paste	6	4-5	5
15 Olive Green B Paste (N)	6	4-5	5
16 Khakhi 2G Paste	5	4	4-5
17 Brown RRD Paste	7	4-5	5
18 Grey 3B Paste	6-7	5	5
19 Black BG Paste	6-7	5	5
20 Black BB Paste	6-7	5	5

JCOVAT Colour and performance at a glance

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JCOVAT

Technical Application Guide

MICRO DISPERSE VAT PASTE

Printing on cellulosic fabrics



Cotton • Viscose rayon • Cellulosic discharge printing

Paste preparation and printing

Stock paste, thickener preparation, a 5% shade recipe and filtration.

Fixation and finishing

Drying and steaming, oxidation, soaping and essential process controls.

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Preparing the Printing Paste

JCOVAT Micro Disperse Paste comprises indigoid and anthraquinonoid vat dyestuffs for printing on cellulosic fabrics, including cotton, viscose rayon staple and cuprammonium rayon. The range is also suitable for discharge printing on cellulosic fabrics dyed with dischargeable colours.

Fine dyestuff particles are dispersed to give the paste stability and uniformity, supporting fixation under varying steaming conditions. The range extends from yellow to black, with brightness, dispersion and fastness properties.

01 Stock Paste

Ingredient	Quantity
Rangolite C Powder	150 gms
Potassium Carbonate	120 gms
Glycerin	50 gms
Thickener	680 gms
Total	1000 gms

For Black BG Paste, an extra addition of Potassium Carbonate (5%) and Rangolite C (5%) is recommended.

02 Thickener Preparation

Cook Indalca AGBV 3% or UBV (3%), British Gum (3%) and maize starch (6%) together until a transparent mass is obtained. Cool to room temperature and adjust the viscosity as required.

03 Printing Paste for a 5% Shade

Ingredient	Quantity
JCOVAT (MD) Paste	50 gms
Water	50 gms
Stock Paste	900 gms
Total	1000 gms

Keep the printing paste overnight before use to improve colour fixation.

04 Straining

Before printing, filter the prepared paste through a fine cloth to remove hard particles.

Fixation and Finishing

05 Drying and Steaming

Dry the printed cloth well at 50–55°C. Steam continuously in a Rapid ager for 10–12 minutes or a Star ager for 20–25 minutes, using moist steam at 101–103°C under pressure and in the absence of air.

06 Oxidation

Oxidise the steamed fabric to convert the leuco compound formed during steaming into insoluble vat colour fixed on the fabric. Treat the fabric in a bath containing either of the following oxidants:

Oxidation bath	Quantity
Sodium Perborate OR Hydrogen Peroxide	2–3 gm/litre
Glacial Acetic Acid	0.5–1 cc/litre

Temperature 40–45°C • Treatment time 5–10 minutes

Hold the steamed fabric before chemical oxidation.

07 Soaping

After oxidation, rinse thoroughly and soap at the boil with 3 gm/litre Soap and 2 gm/litre Soda Ash. For viscose fabrics, soap at 80°C. Wash and dry to obtain brilliant JCOVAT Micro Disperse Paste shades.

08 Important Process Controls

01 Scour and bleach the fabric thoroughly for best results.

02 Strain the printing paste to help prevent damage to printing screens.

03 Keep the printing paste overnight for better results.

04 Discharge printing may require larger quantities of Rangolite C and Potassium Carbonate.

05 Use anthraquinone for colours that are difficult to discharge.

06 Dry printed cloth at 50–60°C; otherwise Rangolite C may decompose and the shade may become lighter.

07 Do not leave dried printed cloth in the open air for a long time.

08 Maintain steaming temperature and pressure carefully; steaming is essential to this process.

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