



®

Pink Rose

PIGMENTS PVT. LTD.

TECHNICAL PRODUCT BROCHURE

KHADI PRINTING PASTE

COTTON / POLYESTER / STRETCH

A property-based technical reference for opaque white printing on cotton, polyester and stretch textile substrates.

KHADI PRINTING PASTE

PRODUCT OVERVIEW

White Khadi | Product, application and process reference

One white-printing concept, three textile applications

White khadi combines opaque pigment, a film-forming binder and rheology control. Cotton, polyester and stretch each require fabric-specific performance testing.

PRODUCT PLATFORM

Water-based opaque white printing paste technology based on white pigment, polymer binder and thickener, adjusted to the intended substrate.

TECHNICAL APPROACH

Balance whiteness, film adhesion and hand feel. Check dye migration on polyester and flexibility on stretch fabrics before production approval.

APPLICATION

Screen-printing trials on cotton, polyester and elastane-rich fabrics. Select a suitable binder and verify fabric finish compatibility.

PROCESS REFERENCE

Select substrate > prepare paste > print > dry > cure per binder TDS. Validate opacity, rubbing, washing, bleed resistance and stretch recovery.

AT A GLANCE

03

FABRIC CLASSES

White Khadi

OPAQUE PASTE

Print & Cure

WORKFLOW

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Product selection and performance depend on fabric, binder and printing conditions. Approve a finished print on the intended textile before bulk production.

PRODUCT SELECTION

THREE FABRICS. THREE PRIORITIES.

Select white Khadi printing paste around the fabric, intended finish and print durability requirements.

APPLICATION-BASED SELECTION

COTTON KHADI Woven cotton and cotton knits Softness Coverage Wash	POLYESTER KHADI Polyester and polyester-rich fabric Low bleed Adhesion Cure	STRETCH KHADI Elastane blends and stretch knits Flexibility Recovery Film
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FABRIC-SPECIFIC PERFORMANCE TARGETS

CRITERIA	COTTON	POLYESTER	STRETCH
Main objective	White coverage with a comfortable print feel	Whiteness with controlled dye transfer	Coverage with flexibility during wear
Binder priority	Adhesion and balanced film softness	Adhesion to synthetic fabric	Elastic film with recovery
Process watchpoint	Cotton absorbency and deposit weight	Heat exposure and fabric dye chemistry	Stretch direction and film thickness
Suggested evaluation	Wash, rub, fold and hand-feel checks	Dye migration, adhesion and wash checks	Repeated extension, recovery and wash checks

Each category describes a printing application and its design priorities. Final suitability depends on the selected Pink Rose grade, fabric and production conditions.

COTTON KHADI

For cotton garments, cotton knits and cotton-rich textile printing applications.

APPLICATION OBJECTIVE

Create clear, opaque white prints while maintaining a comfortable hand feel and durable bonding to cotton after suitable curing.

PRINTING PRIORITIES

WHITE COVERAGE

Aim for even hiding power and defined print edges without excessive film build.

SOFT TOUCH

Balance pigment concentration, binder and deposit thickness for the intended garment feel.

BINDER ADHESION

Check compatibility with cotton finishing, pre-treatments and washing conditions.

PRINT CONSISTENCY

Control viscosity, screen deposit and drying so the print remains uniform.

RECOMMENDED TRIAL CHECKS

- Assess print opacity, dry/wet rubbing and laundering performance.
- Fold and flex the print to check for stiffness or loss of film adhesion.

POLYESTER KHADI

For polyester and polyester-rich fabrics, including dark or sublimation-dyed textiles.

APPLICATION OBJECTIVE

Maintain white coverage and film adhesion while controlling the risk of fabric-dye migration during curing, storage and use.

POLYESTER-SPECIFIC REQUIREMENTS

LOW-BLEED APPROACH

Use a compatible formulation or blocking layer when a dyed fabric shows migration risk.

SYNTHETIC ADHESION

Verify that the printing binder bonds adequately to the fabric and finish.

HEAT CONTROL

Use the selected binder cure schedule while avoiding unnecessary heat exposure.

COLOUR STABILITY

Inspect for white-to-pink, grey or other tint changes after curing and conditioning.

IMPORTANT PRODUCTION NOTE

Low-bleed performance depends on the fabric dye lot, finish, print construction and heat history. Test the actual garment before production; no ink can be assumed migration-proof on every polyester fabric.

STRETCH KHADI

For cotton/elastane, polyester/elastane, activewear, hosiery and stretch-knit garments.

APPLICATION OBJECTIVE

Achieve opaque white coverage using a flexible print film that follows garment movement without excessive cracking or permanent distortion.

STRETCH-SPECIFIC REQUIREMENTS

FLEXIBLE BINDER

Prioritise a binder suited to repeated fabric extension and recovery.

CONTROLLED FILM BUILD

Limit unnecessary print thickness, which may restrict extension and feel heavy.

CRACK RESISTANCE

Inspect after repeated stretch cycles, especially across the main movement direction.

WASH & RECOVERY

Recheck film integrity, tack and hand feel after laundering and relaxation.

ADDITIONAL CHECK FOR STRETCH POLYESTER

For polyester/elastane fabrics, both dye-migration and elasticity checks are needed. The approved curing process must also respect the substrate's heat sensitivity.

TECHNICAL GUIDE

UNDERSTANDING WHITE KHADI

The printing result depends on opacity, binder performance and how the paste is applied to the fabric.

COMMON FORMULATION ELEMENTS

COMPONENT	FUNCTION	SELECTION CONSIDERATION
White pigment phase	Provides the white appearance and hiding power	Optimise coverage against deposited film weight
Film-forming binder	Anchors pigment to textile and determines much of the film feel	Choose for cotton, polyester or stretch requirements
Rheology system	Controls screen transfer, paste flow and print-edge definition	Match the print method and intended deposit
Process additives	May assist wetting, hand feel, stability or migration control	Verify compatibility before production

SELECTION BY FABRIC

01

COTTON

Select for opacity, adhesion and softer handling.

02

POLYESTER

Add dye-migration controls where tests indicate.

03

STRETCH

Prioritise film extension and recovery.

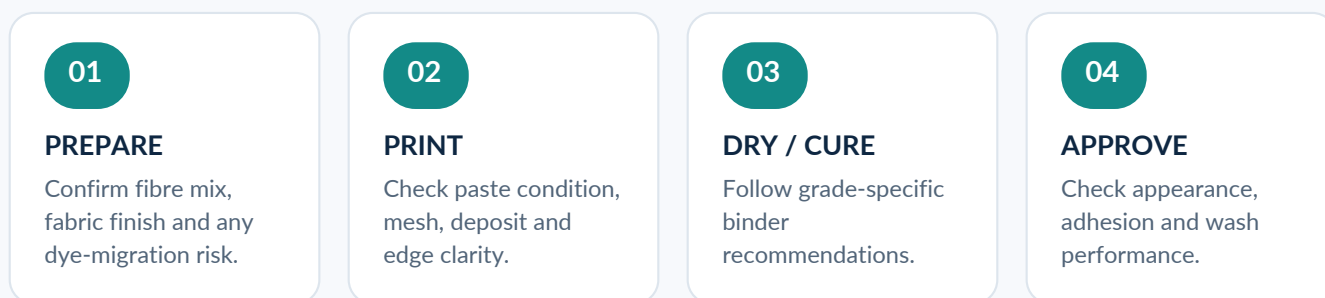
Exact ingredients, mixing ratios and numerical specifications are grade-dependent and should be confirmed before production.

APPLICATION GUIDE

PRINTING & CURING

A practical workflow for production trials across cotton, polyester and stretch fabrics.

RECOMMENDED PRINTING SEQUENCE



CHECKPOINTS BY SUBSTRATE

FABRIC	SET-UP FOCUS	APPROVAL FOCUS
Cotton	Confirm fabric is suitable for printing; check ink penetration and film build.	Soft feel, stable opacity, wash and rub durability.
Polyester	Screen dye lots and check the selected heat / cure profile.	Whiteness after cure, conditioning and wash.
Stretch	Print along intended extension direction and avoid excessive deposit.	Film integrity after repeated extension and recovery.

CURING GUIDANCE

Curing temperature and dwell time depend on the approved Khadi grade, binder and dryer. Confirm actual film temperature and perform wash testing before bulk production.

PERFORMANCE & QC

QUALITY CHECKS

Useful checks for qualifying a finished white print on the fabric it will actually be used on.

ROUTINE PRINT QUALITY CHECKS

CHECK	WHAT TO ASSESS
Appearance / opacity	Print on the intended fabric and assess uniformity and white coverage.
Dry / wet rubbing	Check colour or film transfer and visible wear under agreed conditions.
Wash durability	Launder a cured specimen using the intended care method; inspect changes.
Adhesion / film integrity	Observe peeling, flaking and damage after flexing and washing.
Surface feel	Compare print softness, tack and garment drape against an approved sample.

ADDITIONAL CHECK BY FABRIC

COTTON

Check stiffness and fold durability.

POLYESTER

Condition for dye bleed after heat.

STRETCH

Cycle extension; inspect cracks.

CUSTOMER & PROCESS GUIDE

BEFORE BULK PRINTING

Confirm the substrate and the required finish, then approve a printed trial.

INFORMATION TO CONFIRM BEFORE PRODUCT SELECTION

TOPIC	REQUIRED DETAILS
Fabric	Fibre content and blend ratio (cotton / polyester / elastane).
Garment	Fabric colour, finish, knit or weave, and intended end use.
Printing	Screen setup, print area, desired opacity and hand feel.
Production	Available dryer / curing process and target washing conditions.

QUICK TROUBLESHOOTING

OBSERVATION	RECOMMENDED REVIEW
Uneven white cover	Check paste mixing, fabric absorbency, screen and deposit.
Hard or stiff print	Review film build and binder / pigment balance.
White turns grey or pink	Assess dye migration, barrier choice and curing profile.
Cracks on stretch	Check film elasticity, thickness and extension direction.

Final properties and suitability are determined through approved trials on the intended fabric.



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