





SCHUTZEN NATURAL PROCESS

Innovative alternate process to traditional Indigo Processing

Waterless Indigo Free, Denim like look using

Pigments or Reactive Dyes instead





- Normally, A reactive/Pigment Dyed (Yarn or Fabric Knits as well as woven) will never exhibit wash down effect post processing, Thus the industry uses Indigo & Sulfur dyes.
- ✓ No post production changes in washing technique are necessary at the Garment livel.
- ✓ The process is bio-Degradeable and Environmentally friendly.

PROCESS BENEFITS



MACHINE FLEXIBILITY

Warp Dyeing Machine

Padding Mangles

Rotary/Flat bed printing machines

Coating Machine



WATER SAVING

Reduced water consumption upto



CHEMICAL SAFETY

Indigo Free/Sulphur Free

Hydrosulphite Free process

Better fixation

Less ETP load



COST SAVING

25-30% overall cost reduction



SCHUTZENCOL-FADER

sustainable wash down look using reactive Dyestuff & SCHUTZENCOL-FADER

SCHUTZENCOL-FADER is a ready to use Concentrated Liquor.

SCHUTZENCOL-FADER is a synergistic combination of Polymers based on a bio-degradable polyermic backbone which is bio-degradeable & Sustainable.



RECOMMENDED RECIPE

Sustainable wash down look using reactive Dyestuff & SCHUTZENCOL-FADER

PRODUCT NAME	RECIPE
SCHUTZEN Grade Special Reactive Dyestuff	X parts
SCHUTZENCOL-FADER	70 parts
Water	Y parts (upto viscosity 5000 cPs)
pH (Check)	8-9
Total	100 parts



POST REACTIVE WASHDOWN PROCESS

Sustainable wash down look using reactive Dyestuff & SCHUTZENCOL-FADER



Transfer to machine of choice (soft-flow, jigger, open width etc) treat with SCHUTZENZYME-NC (1-2% o.w.f.)

Run machine at 55 °C for 10-15 mins

POST REACTIVE SOAPING PROCESS



2° 08

Soaping & anti-using SCHUTZENWASH-12

Neutralise using SCHUTZENACID-NEUTRA

Cold Wash

Dry

NOTE: The sequence for enzyme wash are reversible based on guidelines from the manufacturer





SCHUTZENCOL-FADER

Sustainable Wash Down Look Using Reactive Dyestuff SCHUTZENCOL-FADER



SCHUTZENFIX-RD:20g/I, 80% expression

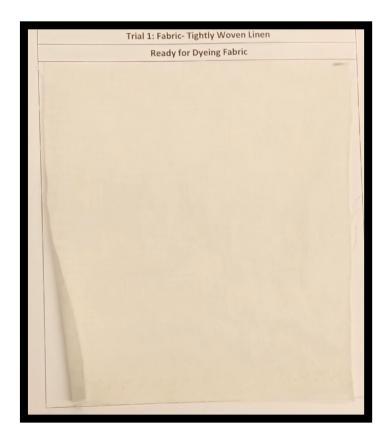


100°C for 3-5mins

NOTE: This step is not mandatory; it is to be carried out only if found necessary

EFFECTS

Sustainable Wash Down Look Using Reactive Dyestuff SCHUTZENCOL-FADER







SCHUTZENCOL-DENIM

Sustainable Wash Down Look Using Pigments SCHUTZENCOL-DENIM

SCHUTZENCOL-DENIM is a ready to use Concentrated Liquor.



RECOMMENDED RECIPE

Sustainable wash down look using pigments SCHUTZENCOL-DENIM

PRODUCT NAME	RECIPE
Pigments	X parts
SCHUTZENCOL-DENIM	70 parts
Water	Y parts (upto viscosity 5000 cPs)
pH (Check)	6-7
Total	100 parts



APPLICATION PROCESS FLOW

Sustainable wash down look using pigments SCHUTZENCOL-DENIM



2 dip nip 80-90% expression



100 °C for 3-5mins



150 °C for 2-3mins

WASHDOWN PROCESS FLOW



Cold Wash

Transfer to machine of choice (soft-flow, jigger, open width etc) treat with SCHUTZENZYME-NC (1-2% o.w.f.)

Run machine at 55 °C for 10-15mins

Hot Wash & Cold Wash

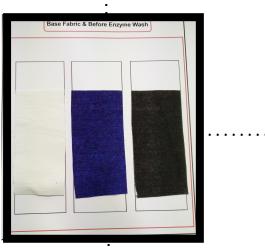
Dry



EFFECTS

Sustainable wash down look using pigments SCHUTZENCOL-DENIM

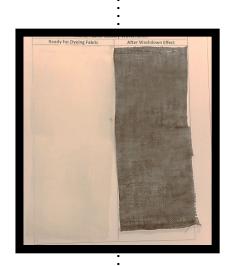


















CERTIFICATIONS

SCHUTZEN is committed towards acquiring the right certifications

Textile Chemical Safety Certificates





