



CORAVAT

Coravat



Range

Coravat Dyes – Anthraquinone

Coravat Pastes – Anthraquinone
Indigoid

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General Procedure

Insoluble Dyes

Solubilised (Caustic Soda, Hydros Temp.50-60°C)

Apply

Converted into insoluble form

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Forms

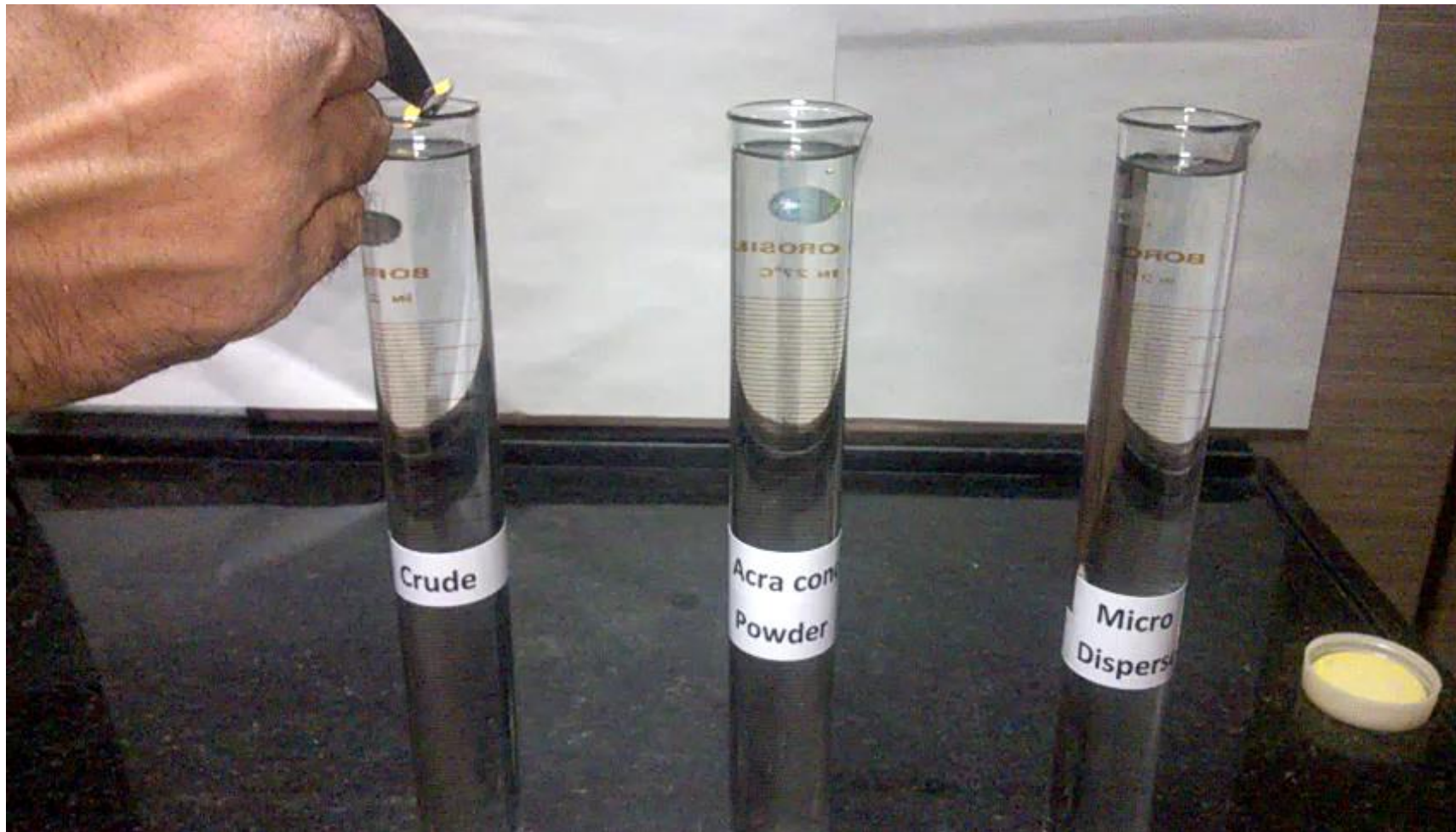
Crude

Acra Conc./ Powder

Micro Disperse

Paste

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Qualitative Tests for Acra Conc./Powder

Wettability

pH of 1% Solution

Powder Examination

Moisture

Rate of reduction

Shade & Strength by exhaust dyeing

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Qualitative Tests For Micro Disperse

Particle Size

Filter paper dispersion

AATCC filter test no.

Dust particle analysis (Dusting rate)

Dispersion stability

Storage stability

Speck test

Nybolt filter test

Moisture content

Sieve analysis

pH of 1% Solution

Shade & Strength by exhaust dyeing & by continuous dyeing

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Product range

Coravat Acra Conc./ Powder	– 19
Coravat Micro Disperse	– 29
Coravat Paste	– 14
Total	– 62

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Current scenario in Vat dyes

Effluent load

Long process cycles

Inventory

Dedicated set up

No new competitors

High cost

Decreasing demand

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New development

Blue R M/D against Indanthrene Blue RS

Grey 1301 M/D against Indanthrene Grey 5607

1 kg packing of Coravat paste


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Comparative Dyeing:


Exhaust Dyeing on Fabric

Coravat Blue R M/D (2.00%)	Indanthrene Blue RS (2.00%)
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Exhaust Dyeing on Fabric

Coravat Grey 1301 M/D (2.00%)	Indanthrene Grey 5607 (2.00%)
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This information is provided in good faith, to the best of our knowledge and without any liability.

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Products discontinued/ alternative

Coravat Brown R / Coravat Brown RN

Coravat Brown 2G / Coravat Brown 2GN



Coravat Brown G / Coravat Brown GN

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Comparative Dyeing:

Exhaust Dyeing on Yarn

Coravat Brown R A/C (2.00%)	Coravat Brown RN A/C (2.00%)
	

Exhaust Dyeing on Fabric

Coravat Brown R A/C (2.00%)	Coravat Brown RN A/C (2.00%)
	

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Comparative Dyeing:

Exhaust Dyeing on Yarn

Coravat Brown 2G A/C (2.00%)	Coravat Brown 2GN A/C (2.00%)
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Exhaust Dyeing on Fabric

Coravat Brown 2G A/C (2.00%)	Coravat Brown 2GN A/C (2.00%)
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Comparative Dyeing:

Exhaust Dyeing on Yarn

Coravat Brown G A/C (2.00%)	Coravat Brown GN A/C (2.00%)

Exhaust Dyeing on Fabric

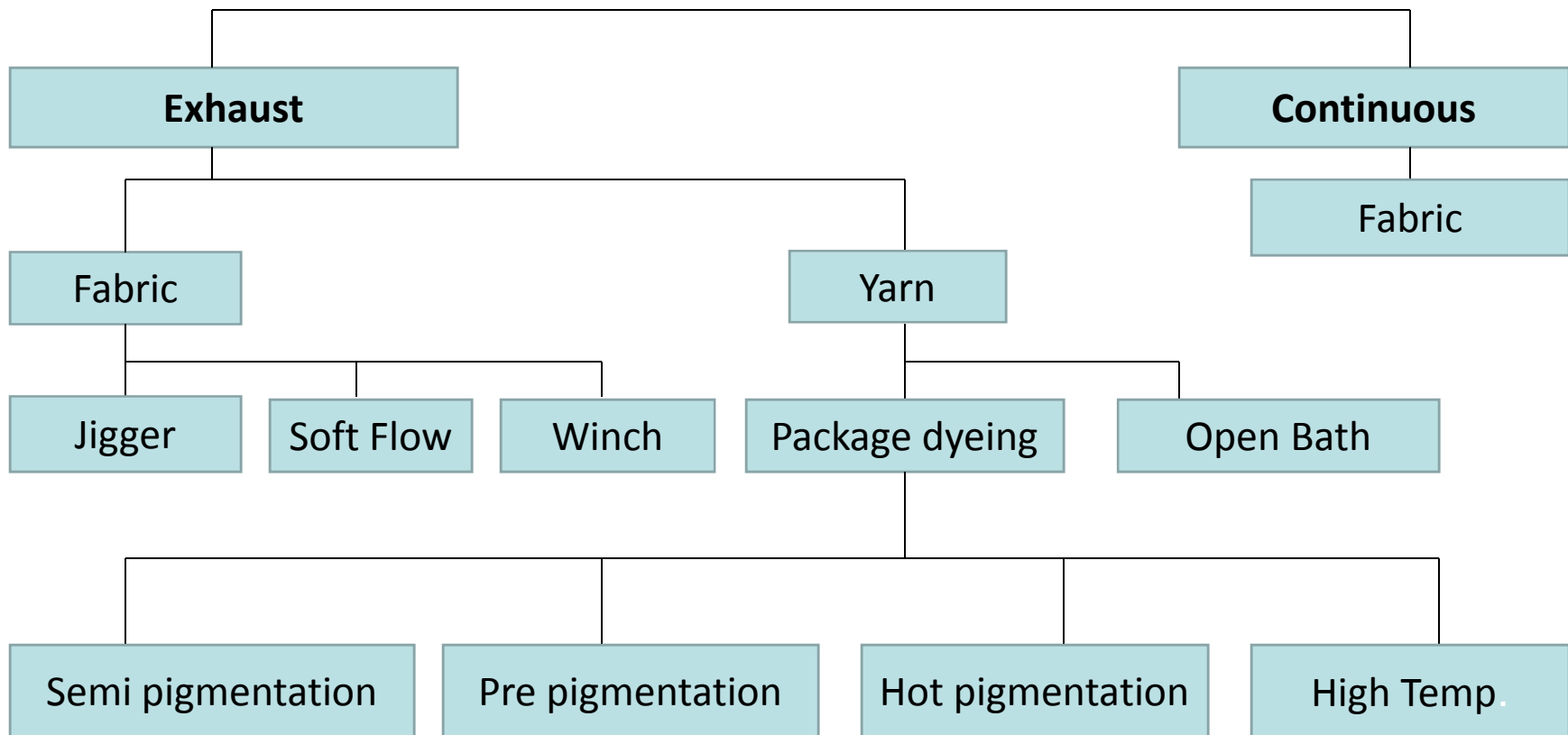
Coravat Brown G A/C (2.00%)	Coravat Brown GN A/C (2.00%)

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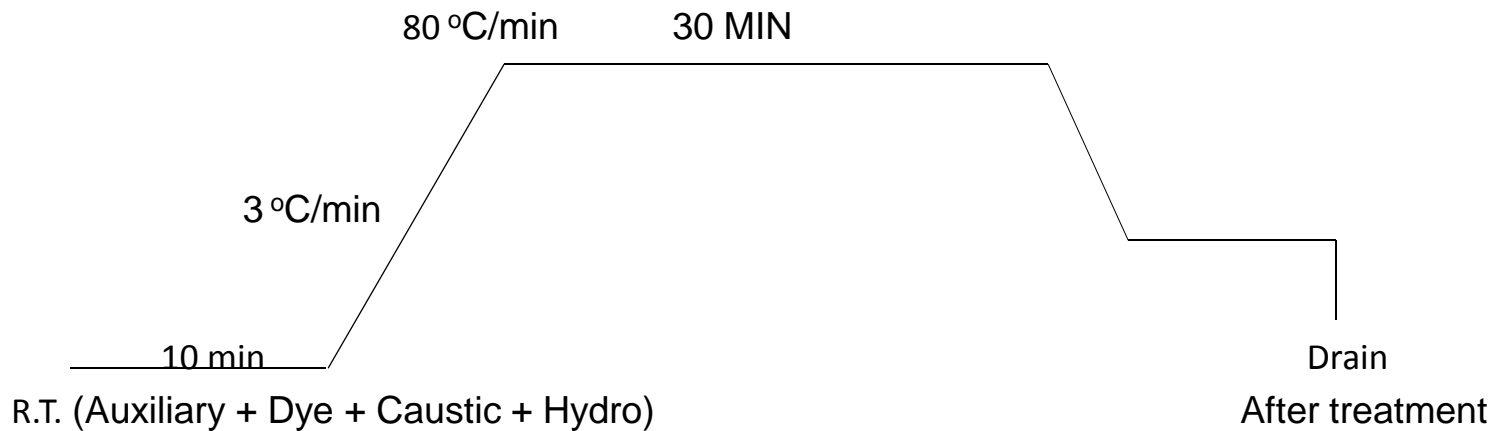
Vat dyes Applications



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Semi pigmentation process



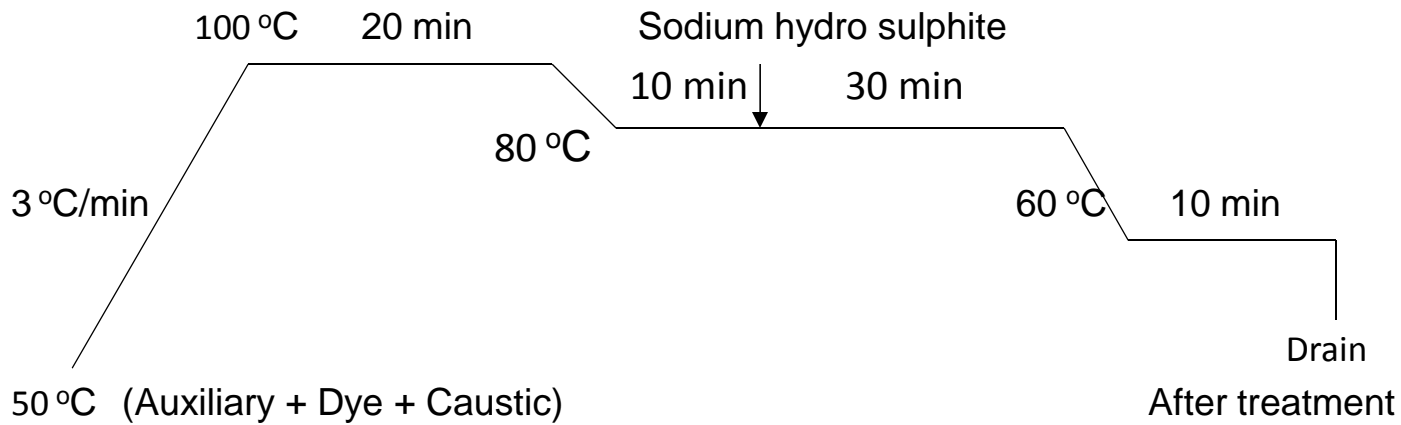
Mainly used for pale to medium shade

Slow rate of reduction and slow rate of exhaustion

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Hot pigmentation process

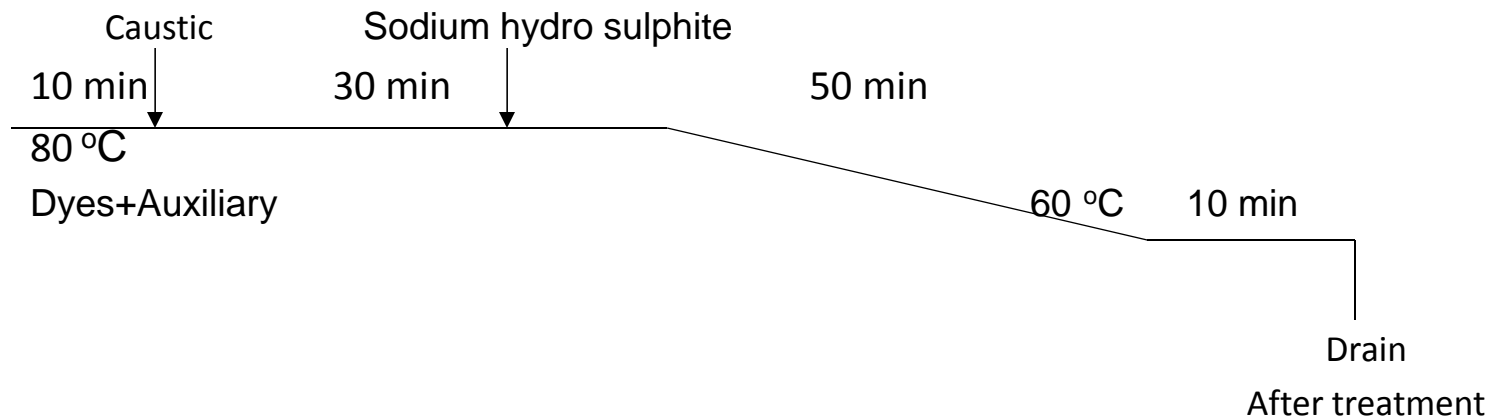


Economical process for dyeing grey yarn

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Pre pigmentation process



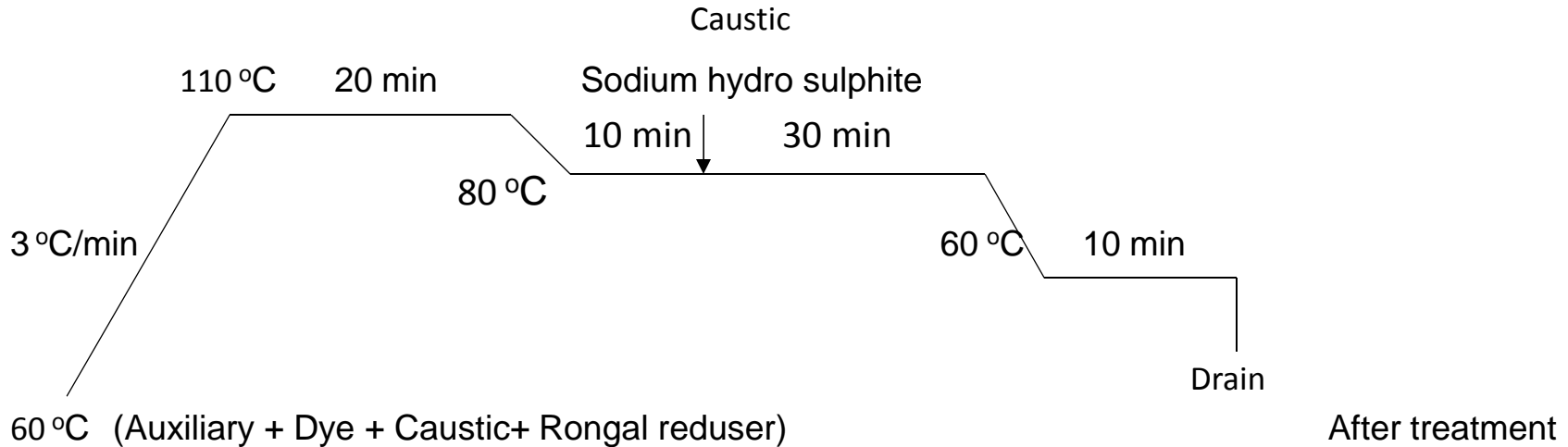
Dye in non affinitive form deposited on fibers

Higher pigmentation temperature give more uniform deposition due to better liquor flow

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High temperature dyeing process



Well penetrated dyeing on linen and viscose at cross over points

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Level dyeing factors

Uniform package size with package density 350-400 gm/Lit

Any addition should be made during out side / inside flow

Pump performance liquor throughput 20-30 l/kg/min

Addition of levelling agent Levocol CLV

Use dye with good levelling properties

Intensive pretreatment: boiling off or bleaching

Optimum finishing of the dyeing

Use dye with good levelling properties

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Problems observed & checks

Lower Colour Yield

- Water hardness

Inner outer depth variation

- Pump pressure

Package density

Process cycles

Poor rubbing fastness

- Dye concentration

Hard water

Dusting of yarn when rewinding

- Pretreatment

Dye dispersion

Process cycles



Thank You