

Committed to Sustainability.

At DyStar, our products and services help customers worldwide reduce costs, shorten lead times and meet stringent quality and ecological specifications.



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econfidence[®]
from DyStar



Cadira[®] Wool

Get a Move On



Cadira[®] Wool Concept

What is the Cadira Wool Concept?

More than 50 % of wool is dyed in black and navy blue shades. As the processing wet fastness requirements are extremely high, mordant dyes are still used in large amounts.

Cadira Wool is our solution to substitute afterchrome dyes in wool dyeing. Our metal-free reactive dyes have been specially developed to replace afterchrome dyes.

Cadira wool offers a more sustainable alternative for black and navy shades:

- ✓ **Realan[®] Black MF-PV**

 - Identical shade and metamerism as Mordant Black 9
 - Not based on Reactive Black 5
 - The most suitable black for Mix & Match Clothing due to its high color constancy, processing and wet fastness
- ✓ **Realan Navy MF-RRN**

 - A deep clear bloom navy shade
 - Not based on Reactive Black 5
 - High processing and wet fastness

With this concept, we are able to directly replace afterchrome black and navy dyes without deficits in either the processing and/or end-user fastnesses.

Why the Cadira Wool Concept?

- ✓ **No Chromium in the Process**

 - No handling of chromium salts
 - No chromium in the wastewater
 - No chromium in wool
- ✓ **The Highest Processing and Wet Fastness**

 - Excellent replacement of afterchrome dyes
 - Best choice for machine washable / shrink resist wool
 - Highest fastness to processing especially milling and crabbing
- ✓ **Processing and Application Quality**

 - Better spinning performance compared to afterchrome dyes
 - Excellent reproducibility and levelling
 - Better resiliency, softness and smoothness in fabric handle compared to wool dyed with afterchrome dyes

Economical Selection for Black and Navy Shades With Good End-User Fastness

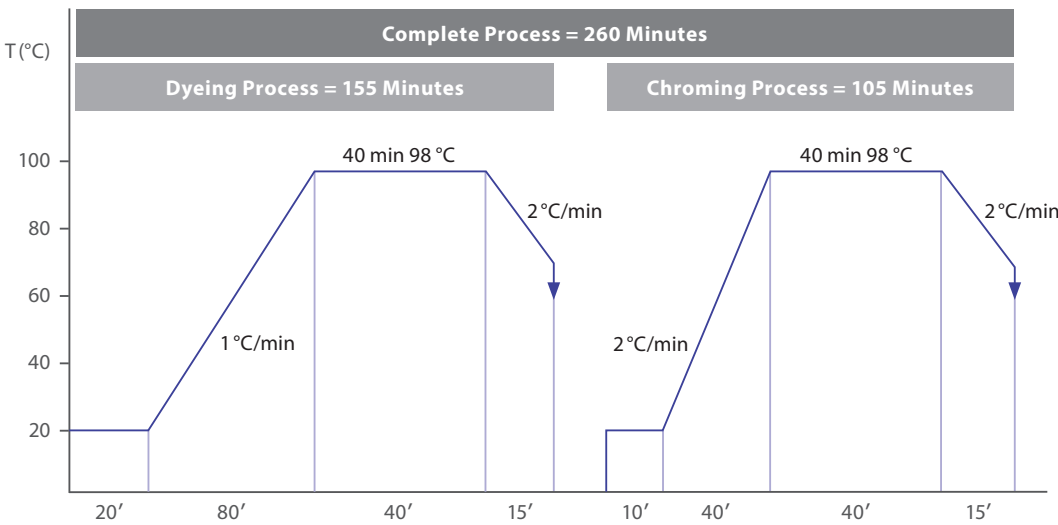
- Realan Navy EHF new
- Realan Black EHF new
- Realan Deep Onyx EHF

Supplementary Dyes for Fashion Shades

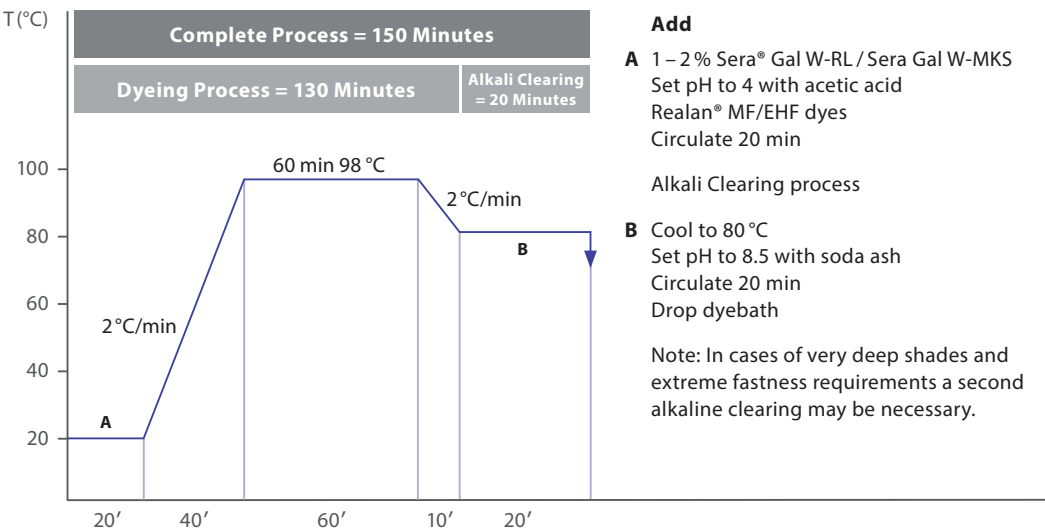
- Realan Yellow EHF
- Realan Amber EHF 01
- Realan Red EHF
- Realan Deep Red EHF
- Realan Blue EHF
- Realan Royal EHF

DyStar[®] is bluesign[®] partner, please find the up-to-date positive lists in eliot[®].

Conventional Dyeing Process for Mordant Black and Navy Shades



Cadira[®] Realan Wool Concept



Benefits in Processing

- ✓ Savings of 50 % water – only uses one bath
- ✓ Saving of energy
- ✓ Savings of 40 % time as the process is very rapid
- ✓ Better yield of wool in spinning and weaving