

Livinguard +DYE

Innovative additive that reduces the number, duration & temperature of washing and soaping cycles needed to remove unfixed dyes in an otherwise conventional wet dyeing process for 100% cotton / viscose and cotton/Lycra blends. Another step towards our commitment for a more sustainable future and our vision of freeing up vital water resources in the places where it is needed the most by reducing the environmental footprint of the textile industry – all while providing disruptive economics to textile mills.



BENEFITS

Our technology will provide environmental impact and disruptive economics for textile producers.



Up to 30% of water savings from reduction of soaping & washing cycles required post dyeing to remove unfixed dyes



Up to 70% of energy savings from fewer washing cycles carried out at room temperature



Up to 35%of productivity increase from reduction of process time required for soaping & washing cycles post dyeing

Other benefits

- Up to 20% lower dosing of dyestuffs
- Partial or complete substitution of other chemical additives
- Higher production up-time even during water shortages
- No capital expenditures required

ABOUT LIVINGUARD

Livinguard Technologies is a Swiss material science company focused on enhancing the functionality & performance of materials across various applications through the power of surface charge.

Proprietary technologies with over 200 patents filed In-house capabilities with own microbiology & applications labs Unique expertise across applications and industries

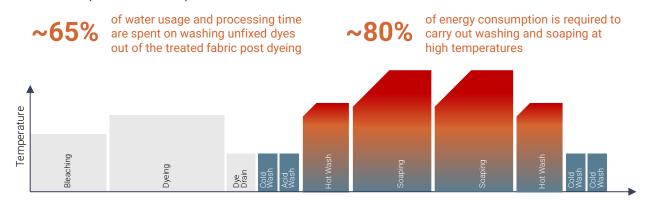
True partnership with deep collaboration & co-development



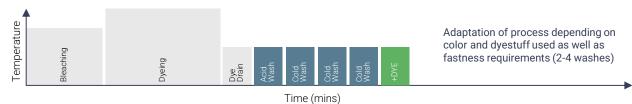
OUR PROCESS EXPLAINED

Overview of exemplary process flow of conventional wet process vs. Livinguard +DYE

Conventional process - example dark shades



Livinguard +DYE process – example dark shades



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VALIDATION

Livinguard +DYE has been externally tested with great results.

Wet & dry rubbing fastness ISO 105-X 12



Comparable dry & wet rubbing fastness as conventional process

Washing fastness ISO 105 C06



Comparable washing fastness as conventional process

Wetness / Water fastness ISO 105-E01



Comparable water fastness as conventional process

Light fastness ISO 105-B02



Comparable light fastness as conventional process

Color AATCC EP 6



Minor deviations in dept and color tone adjustable through dye recipe

CONTACT