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# Baldwin: Changing textile processes towards a better way to reduce recycling costs in textile finishing

Simone Morellini  
Sales Leader Textile EMEA



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Today we will talk about non contact  
spray technology and why it is more  
sustainable than traditional finishing  
processes



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# Why Is Padding Wasteful?

***Bath gets contaminated by fabric particles; chemicals coagulate. Biopolishing increases fabric particle load***

- ↓ Drives high volumes of finishing chemical effluent discharges. Mandatory on color changes
- ↓ 100-to-150-liter discharge per change
- ↓ Can represent >10% of finishing chemical

***An energy intensive raw material is wasted and generates an effluent stream***



# Why Is Non-contact Spray More Sustainable?

## Zero contamination of chemicals by fabric particles due to air gap

- Eliminate need for chemical change when fabric color changes
- Unused chemicals can be reused

## Uniform application throughout the batch



# Conclusion: Why moving to digital contactless finishing technology reduces recycling costs?

Padding typically requires 20–25 minutes per changeover, whereas digital systems take under 6 minutes.

Traditional padders often incur a waste bill of €30,000+ per year solely from recycling baths

Lower chemical load on fabrics can make fiber recycling easier, since heavily chemically loaded textiles are harder to break down and recycle

Cleaner finishes = more recyclable end product, reducing downstream waste management costs

Validated by Fashion for Good and Apparel Impact Institute, this technology is now part of the Climate Solutions Portfolio for its proven impact on reducing emissions and resource consumption

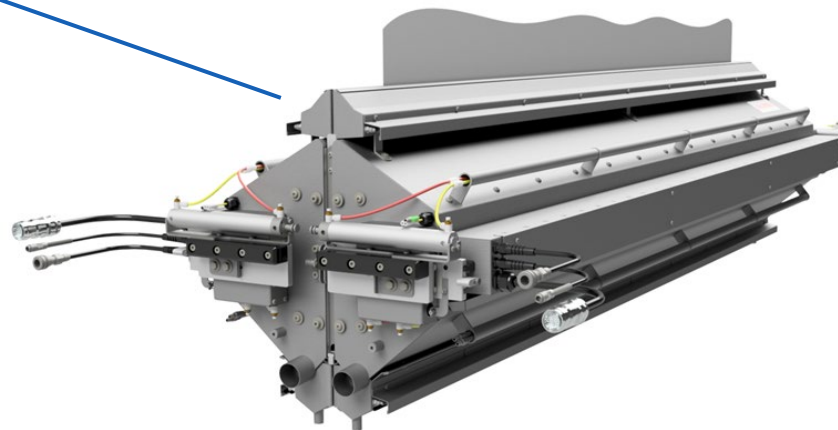
# TexCoat® G4 – Spray Applicator

Vertical fabric direction (bottom-up or top-down) eliminates droplet issues, while non-contact lips prevent touch and line marks

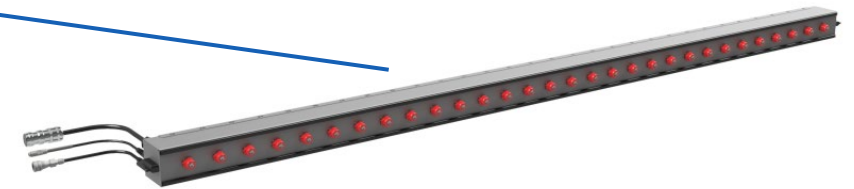


## Stainless Steel Mist Containment Shrouds

Maintain a healthy work environment with enclosed stainless-steel shrouds and non-contact lips — preventing aerosol escape and protecting operators from harmful mist exposure



**Quick Release Spray Bar(s)**  
Single or dual side spray application



# TexCoat® G4



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Thank you very much!  
[simone.morellini@bwconverting.com](mailto:simone.morellini@bwconverting.com)

Ahlbrandt System GmbH  
Altebergstraße 23-27  
DE - 36341 Lauterbach



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