DURABLE WATER REPELLENT

LAMORAL TEXTILE FINISHES





Founded in 2016, Lamoral Coatings B.V. emerged from a European Space Agency (ESA) research project aimed at protecting satellite antennas. Our technology was initially developed using adhesion promoters combined with high-performance water-repellent functionalities. We transformed this technology into PFAS-free, high-performance DWR finishes by ensuring superior durability and sustainability for textiles and industrial applications.

From our humble beginnings we have grown into a global player by providing sustainable and high-performance textile coatings for industries ranging from sportswear, outdoor gear and workwear to home textiles and automotive applications trusted by global brands.

Our Vision & Mission
We envision a world where performance coatings and finishes are safe, sustainable and high-performing. Our mission is to lead the industry with PFAS-free durable solutions by empowering brands with eco-friendly and cutting-edge coatings and finishes.

What We Do

- Innovation & R&D: Developing sustainable, PFAS-free coatings and finishes that outperform conventional solutions
- Manufacturing & Scale-up: Ensuring high-quality production in virgin production sites
- Custom Applications: Tailoring solutions for sportswear, outdoor gear, workwear and industrial surfaces
- Sustainability & Compliance: Certified Bluesign, OEKO PASPORT, ZDHC meeting the highest environmental standards
- Partnerships & Support: Collaborating with brands, mills, and supply chains to drive sustainable transformation

Lamoral® Coatings is redefining water repellency, delivering the next generation of eco-friendly, high-performance solutions for a better and safer world.

Gamechanger

Reshuffling an established market due to the ban of PFAS (C4, C6, C8)

Wear off toxic PFAS repellent chemistry

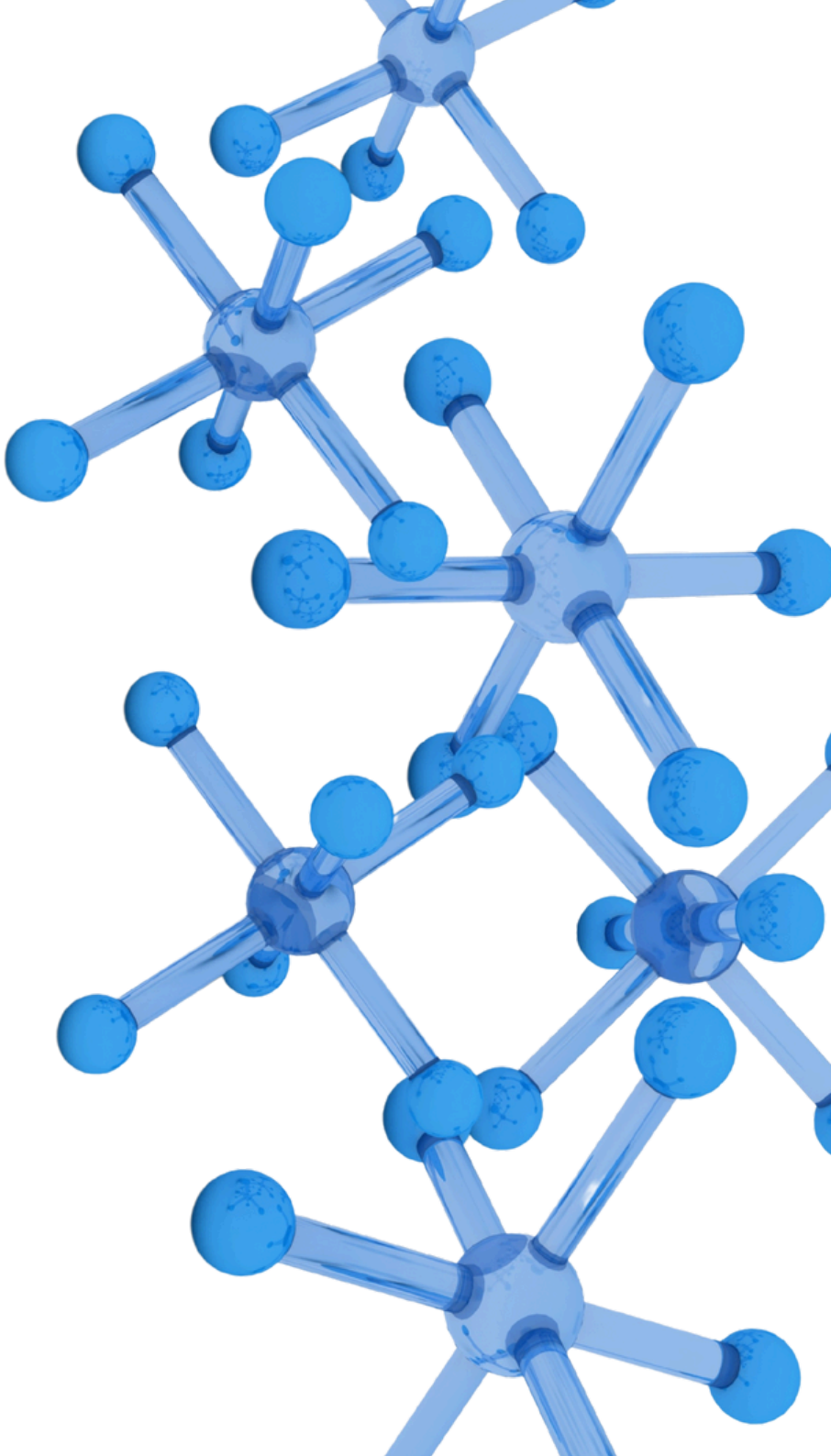
Since September 2024, the EU Commission has adopted new measures under the REACH Regulation – the EU chemicals legislation - to protect human health and the environment by restricting the use of undecafluorohexanoic acid ('PFHxA') and PFHxA -related PFAS substances.

The restriction will ban the sale and use of PFHxA in consumer textiles, such as rain jackets and waterproofing sprays.

This restriction is an important step forward in reducing PFAS emissions, since PFHxA is often used as substitution for another already banned PFAS (perfluorooctanoic acid, or 'PFOA'). It is based on the scientific assessment of ECHA's Committees and has successfully passed the scrutiny of the European Parliament and the Council.

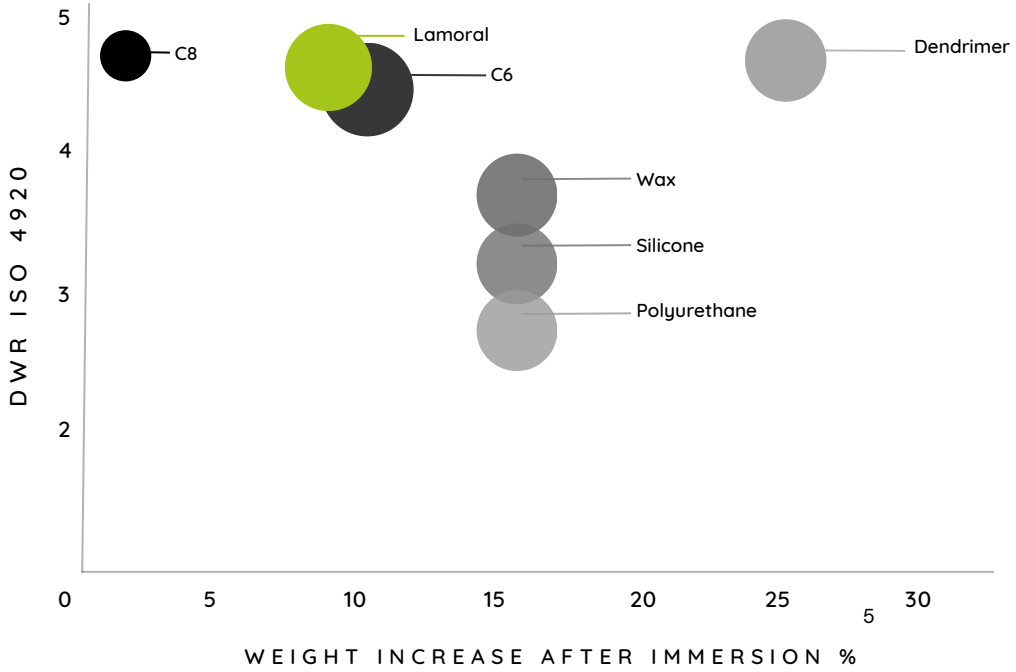
Current C0 DWR are not on par in performance to C6.

Lamoral® C0-DWR is simply the best performing fluorine-free water repellent finish.



C6 performance with C0 chemistry

- **Highest durable water repellence:**
  - **Spray rating:** Exceptional DWR after multiple launderings
  - **Bundesmann:** Excellent water beading and low water absorption
  - **Rain Room:** Very low water absorption with high repellence
  - **Martindale abrasion:** Exceptional wear resistance after multiple cycles
- **Chalk mark resistance:** Improved recipes for reduced chalk marks on sensitive fabrics
- **Hand feel:** By default soft and flexible handfeel and can be adjusted to more cripsy if needed
- **Lowest water absorption:** Speedo fastskin engineered from Lamoral Space tech
- **Line drying performance:** Excellent spray ratings after multiple launderings single layers and laminates
- **Stain release:** Highest stain release ratings Cotton and Synthetic blends against Coffee, Ketchup, Chocolate sauce, Cola and
- **Dry Cleaning:** Excellent dry cleaning resistance on Cotton after multiple cycles
- **Chemical resistance:** Up to Class III chemical resistance against sulphuric acid and alkaline solutions



ROBUST AND EASY PROCESSING

- Common finishing methods (A.o. padding, spraying, foaming and coating)
- No boosters needed: no risk of failures mix ratios, recipe development
- Effective and easy cleaning of stenter equipment and fast changeover times
- Robust and forgiving for adding auxiliaries without coagulation or roller build up
- Lowest recipes (g/l) giving required performance
- Drop-in replacement on traditional equipment settings

ECO FRIENDLY

- PFAS Free
- Up to 60 % biobased
- ZDHC & Bluesign approved



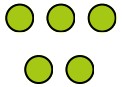
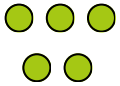
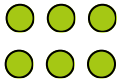
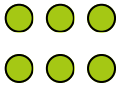
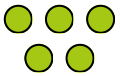
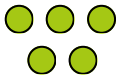
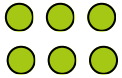
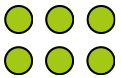
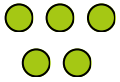
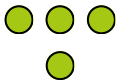
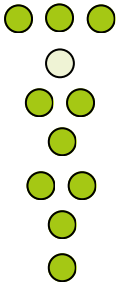
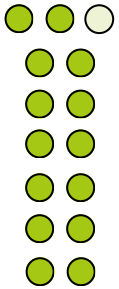
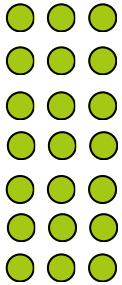
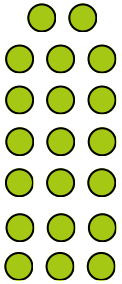
Unique combination of properties of existing (natural) ingredients

Lamoral® finish is a patented plant-based copolymer with a durable anchoring mechanism on a strong but flexible biobased backbone. It is topped of with branched water repellent groups.

The branched structure of the copolymer backbone resists disorientation from washing. The finish is in a flexible state at lower temperatures, which leads to:

- Durable performance
- Low chalk marks with soft hand feel.
- Re-orientation of repellent side chains at room temperature

LAMORAL® DWR PRODUCTLINE

	LAMORAL A3	LAMORAL A5	LAMORAL A8	LAMORAL A50
INITIAL DWR				
• Synthetics • Organics				
TUMBLE DRYING				
• Synthetics • Organics				
LINE DRYING				
• Synthetics • Organics	 **NA**	 **NA**		
CHALK MARK RESISTANCE BUNDESMANN MARTINDALE ABRASION WATER IMMERSION RESISTANCE STAIN RELEASE CHEMICAL RESISTANCE DWR RETENTION AFTER PU COATING				

For specific additional performance attributes Lamoral 34 can be added

ALL COMPLY WITH

Locations of Lamoral Coatings



Global Presence

Lamoral operates from its headquarters in the Netherlands, strategically located in the Brainport region at the heart of Europe. This provides an ideal hub for innovation and industry collaboration.

Beyond Europe, Lamoral has a strong global presence, working together with brand owners around the world. Lamoral is established at the heart of the textile industry with distributor offices in China, Taiwan, Vietnam, Indonesia, Thailand, India and Japan. These regional partners maintain stock, provide technical supporta and customer service leveraging their extensive networks to serve our customers effectively.

To support our growing global demand, Lamoral produces at three custom manufacturing sites across the Netherlands, Germany, and Belgium, ensuring efficient manufacturing, scalability and seamless distribution. Our production facilities are amongst others ISO 9001, ISO 14001, Ecovadis and Bluesign certified reflecting our commitment to quality, sustainability, and responsible manufacturing.

With a foundation in cutting-edge technology and a strong worldwide network, Lamoral continues to drive the future of textile innovation with superior durability, sustainability, and performance.

Certificates

Lamoral works closely with brand owners and fabric mills to enhance water repellence and stain release performance on textiles. This process often begins with trials conducted on a laboratory scale. Technical support and recipe development at Lamoral are handled in-house at their fully equipped laboratory facility. The meticulous attention to detail during the trial phase helps streamline later implementation and saving both time and resources.

Lamoral's distribution partners leverage their technical expertise to guide industrial-scale trials and provide customer support during the subsequent production stages. Throughout the entire process Lamoral maintains close collaboration with brand owners by ensuring the highest quality of water repellence.



ENGINEERED FROM LAMORAL® SPACE TECH.



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