

BIONIC-FINISH® ECO

Fluorine-Free, Water Repellent Finishes for Ultimate Performance

In recent years, many scientists have shifted from favoring a "primordial soup" in pools of water to hydrothermal vents deep in the ocean as the original source of life on Earth. Regardless what the real beginning really was, water was certainly involved in the process some 3,5bln years ago. And since then, Mother Nature designed many ways to benefit of water and to be sheltered from it. Many engineering challenges humans face can be solved by turning to those 3,5bln years of experience and by using natural design as springboard. That's biologically inspired engineering or, in short, bionics.

BIONIC-FINISH® ECO of RUDOLF GROUP is Mother Nature's work reproduced on textiles and apparel to protect us from water. **To perform.**

Back in 2003, RUDOLF GROUP borrowed from Mother Nature the idea of dendrimers, molecules made of multi-functional branches that interact among themselves, co-crystallize, and self-organize into highly ordered, non-fluorinated, multi-component systems. They attach to the textile and embed fluorine-free, DWR performance.

In 2021 **BIONIC-FINISH® ECO** comes as a reviewed and extended family of unique non-halogenated, APEO-free, fluorine-free formulations suited for different materials and designed for different applications and needs. Still very much based on patented dendrimer technology, the new and strengthened **BIONIC-FINISH® ECO**'s product portfolio:

- Provides non-fluorinated and highly durable water repellent textile finishes for high-performance, professional applications (e.g. when brushing resistance is required);
- Delivers highly efficient and durable performance with low application amounts thus not affecting fabric feel and appearance (e.g. when remarkable softness is important);
- Fulfils a range of challenging technical requirements (e.g. in combination with flame retardants);
- Is suitable for both sportswear and outdoor applications, as well as for casual apparel and fashion clothing.
- Is bluesign® approved, ZDHC chemical gateway certified and compliant with most RSLs;

BIONIC-FINISH® ECO new portfolio includes universal and versatile solutions targeting the most standard requirements, as well as customized solutions that meet more demanding and specific expectations such as improved resistance to dry-cleaning.

*"None of us can entirely predict where our voyage will lead" says Dr. Gunther Duschek, RUDOLF GROUP Managing Director. "However, **BIONIC-FINISH® ECO** of RUDOLF GROUP will always be the fluorine-free DWR for ultimate performance. As it is today".*

About RUDOLF GmbH :

RUDOLF GmbH, which, today, is based in Geretsried, Bavaria, was founded by Reinhold Rudolf in Northern Bohemia in 1922. It is specialized in innovative and high-quality chemical products, predominantly textile auxiliaries, products for textile care as well as construction chemicals. 1745 employees in 45 countries around the world guarantee logistical as well as technical service. The combination of backwards integration, development know-how, exact knowledge of market requirements and thorough technical application expertise make RUDOLF GmbH an experienced and competent partner for the customers of the textile finishing industry, co-producers and many other industries. Quality Management and certification according to DIN ISO 9001:14001 go without saying. RUDOLF offers products that comply with the OEKO-TEX Standard and GOTS, is committed to ZDHC and is a bluesign system partner. In addition, as a member of the chemical industry, it lives the philosophy of the voluntary Responsible Care initiative, which stands for responsible action in the fields of environment, safety and health.

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