

FINISH AND SAVE

Sustainable functionalisation of
textiles by the resource-sparing
WEKO liquid application

Textile Auxiliaries - Finishing

www.rudolf-group.com

In cooperation with

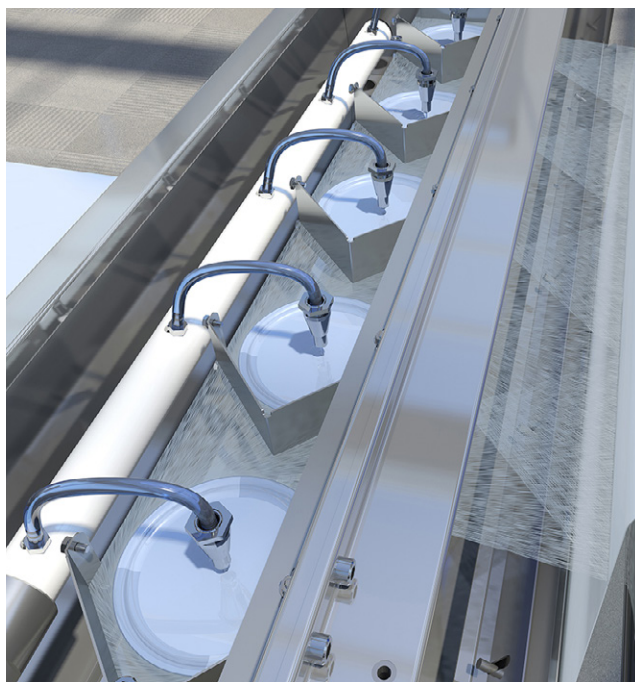




Sustainable functionalisation with minimal application of RUDOLF products

By applying textile auxiliaries liquors, functional finishing effects can be added to textiles such as woven and knitted fabrics as well as non-wovens: Softening agents, finishing agents, anti-static agents, flame retardants, hydrophilizing agents, products for repellency and soil release products guarantee comfort, easier cleaning and protection. Due to the contactless WEKO liquid application system, **RUDOLF GROUP** products can be applied to the textile material line in a material- and resource-friendly way.

By using contactless application, an individual functionalisation of textiles is possible while maintaining the maximum cost-efficiency and productivity.



Function principle of the application system for WEKO liquid application system (WFA)

The finishing is carried out by the WEKO liquid application system. Revolving disks, so-called rotors, are grouped next to each other inside the WEKO SIGMA-rotor carrier. The required and pre-defined quantity of fluid is carried to them via the WEKO FLOW liquid supply. The rotors' fast rotation forms a steady stream of very fine micro-droplets. This stream is guided by adjusting gates, so that a distinct fan forms per each rotor. These fans string together seamlessly, thus guaranteeing a regular application of the finishing chemicals to the material line. The minimum application is considered a valuable contribution to the sustainable functionalisation of textiles, as it saves water and drying energy.

Your benefits

- material saving, contactless application, no squeezing
- minimum application thanks to exactly defined application amount
- high long-term consistency of quantity and liquid distribution
- no change in quality of the liquor
- application amount can be reproduced
- different substances can be applied
- lower energy consumption due to less drying time
- user-friendly

Products for the WEKO liquid application system

Softening agents

PERRUSTOL AST NEW	c	QA	Antistatic effect on synthetic fibres
PERRUSTOL CCA	c	FAC	Very effective, lends smoothness, resistant to yellowing
PERRUSTOL HNX	c	FAC, PE	Hydrophilic, improves sewability
PERRUSTOL IPS NEW	c	FAC	Especially for indigo-dyed articles
PERRUSTOL MMX	n	FAC	Hydrophilic, applicable in resin finishing liquors
PERRUSTOL MMX CONC	n	FAC	Concentrated, hydrophilic, applicable in resin finishing liquors
PERRUSTOL TIC 500	c	FAC	Concentrated, hydrophilic, self-emulsifying
PERRUSTOL TIP CONC	c	FAC	Concentrated, hydrophilic
PERRUSTOL VNO NEW	n	FAC	Hydrophobic, compatible with repellents

Silicone softening agents

RUCOFIN AVO NEW	c	SI, OIL, WAX	Hydrophilic, compliance with OEKO-TEX standard and GOTS
RUCOFIN GES NEW	c	SI	Hydrophilic, resistant to yellowing, very process stable
RUCOFIN GSP NEW	c	SI	Hydrophilic, improves sewability
RUCOFIN GSQ NEW	c	SI, PE	Hydrophilic, improves sewability
RUCOFIN GWA NEW	c	SI	Hydrophilic, very process stable
RUCOFIN GWE	c	SI	Permanent, deepens colour
RUCOFIN GWG	sc	SI	Highly wash-resistant
RUCOFIN GWS	c	SI	Super soft
RUCOFIN HHS NEW	c	SI	Hydrophilic, very process stable
RUCOFIN HPU	n	SI	Hydrophilic, very process stable
RUCOFIN HSX	c	FAC, PE, SI	Hydrophilic, improves sewability
RUCOFIN LAN NEW	c	SI, OIL, WAX	Hydrophilic, compliance with OEKO-TEX standard and GOTS
RUCOFIN SIQ NEW	c	SI	Hydrophilic, process stable
RUCOFIN WSE NEW	n	FAC, PE, SI	Resistant to yellowing, improves sewability



Products for the WEKO liquid application system

Hydrophilizing

FERAN ICE	n	Carboxylic acid derivative	Hydrophilizing, especially for PES
FERAN ICP	n	Polyamide	Permanently hydrophilizing, especially for PA
FERAN ICS	n	Carboxylic acid derivative	Permanently hydrophilizing, especially for PES
RUCO-PUR SEC	c	PU-SI	Hydrophilizing, provides PU-SI-typical handle effect
RUCO-PUR SPH	n	PU	Hydrophilizing, provides PU-typical handle effect
RUCO-PUR SLY	sc	PU	Hydrophilizing, provides PU-typical handle effect

Freshness technology

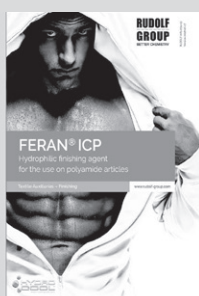
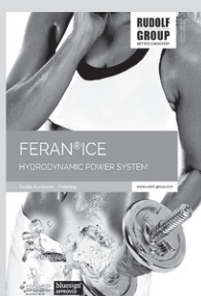
RUCO-FRESH FNB	n	Silanes	Non-biocidal odor management, hydrophilic
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Soil release products

FERAN ASR	n	Carboxylic acid derivative	Provides high SR effects, permanently hydrophilizing
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Anti-static agents

RUCO-STAT ASY NEW	c	QA	Suitable for the application on yarn, very soft
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Products for the WEKO liquid application system

Water-repellent agents

RUCO-DRY ECO	c	Hyper-branched and linear polymers	Highly efficient, based on a fluorine-free formula
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Fluorocarbon repellents

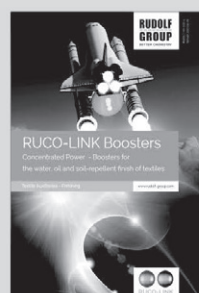
RUCO-GUARD AFB6 CONC	c	Fluorocarbon polymer	Durable when combined with boosters, universal, ecologically optimised
RUCO-GUARD AFC6	c	Fluorocarbon resin	Permanent, universal, ecologically optimised, non yellowing
RUCO-GUARD AFR6	c	Fluorocarbon resin	Permanent, universal, ecologically optimised
RUCO-GUARD AFT6	c	Fluorocarbon polymer	Resistant to dry soil, carpets
RUCO-GUARD AHF6	n/sc	Fluorocarbon polymer	Durable when combined with booster, ecologically optimised
RUCO-GUARD AHP6	n/sc	Fluorocarbon resin	Highly durable especially on PES, ecologically optimised
RUCOSTAR EEE6	c	Fluorocarbon resin	Ecologically optimised, fluorine reduced
RUCOSTAR EEW6	c	Fluorocarbon resin	Ecologically optimised, fluorine reduced, non yellowing

Boosters

RUCO-LINK RCX	c	Blocked poly isocyanate	Crosslinking component for RUCO-DRY ECO
RUCO-LINK WEB		Blocked poly isocyanate	Crosslinking component for RUCO-GUARD AFB6 CONC
RUCO-LINK XHC	c	Blocked poly isocyanate	Crosslinking component for RUCO-GUARD AFB6 CONC and RUCO-GUARD AHP6

Raising/napping agents

RUCO-RAISE PEW	c	PE, paraffin	Antistatic properties
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Products for the WEKO liquid application system

Flame retardants

RUCO-FLAM NUV	u	Organic and inorganic salts	Universal, only minor influence on handle
RUCO-FLAM NSC	u	Organic and inorganic compounds	Resistant to yellowing, does not tend to blooming, preferably suitable for CEL
RUCO-FLAM SCO	sa	Organic and inorganic salts	Stable to water, preferably to be used on CEL, WO
RUCO-FLAM PSY-E	u	Alkyl phosphate	Resistant to ild washing, preferably to be used on PES

Filling and stiffening agents

RUCO-PUR SLR	c	PU	Soft, reducing pilling and enhancing resistance to Velcro tape
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Sewability improving agents

RUCO-LUB KMA 400	sc	PE	Improves sewability
RUCO-LUB KMN 400	n	PE	Improves sewability
RUCO-LUB KPM 400	sc	PE	Considerably improves sewability
RUCO-LUB KSW	sc	WA	Improves sewability, soft, smooth
RUCO-LUB RSP	n	WA + SI	Improves sewability

Thermo-regulating finish

RUCO-THERM PCM 28	a	Mikroencapsulated Phase Change Material	Temperature regulating
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Anti-felting treatment

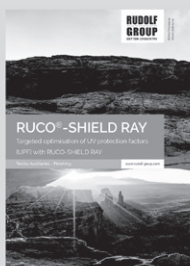
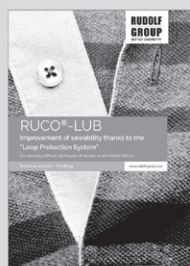
RUCO-PUR DAF	a	PU	Masks scales, anti-felt properties for wool
RUCO-PUR FSA	a	PU	soft, reduction of tendency to pilling and snagging

UV protective finish

RUCO-SHIELD RAY	c	Inorganic pigments in a polysiloxane matrix	UPF-optimisation, preferably to be used on CEL, PA
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c	cationic	FAC	fatty acid condensation products
a	anionic	Oil	Oil
n	non-ionic	PE	Polyethylene
sc	slightly cationic	PU	Polyurethane
sa	slightly anionic	SI	Silicone
u	no charge	WAX	Wax
		QA	Quaternary ammonium compound



About RUDOLF

The company **RUDOLF GmbH**, with its headquarters in Geretsried, Bavaria, was founded by Reinhold Rudolf in North Bohemia in 1922 and specialises in innovative, high-quality chemical products, especially textile auxiliaries and products for textile care as well as building-chemical materials. With approximately 1,000 employees at 45 sites around the world, we guarantee our logistical and technical service. Our combination of backward integration, developmental know-how, exact knowledge of the market requirements and comprehensive expertise in developmental technology makes **RUDOLF GmbH** an experienced and competent partner to customers in the textile finishing industry.

About WEKO

WEKO has been active in the business areas in which it operates today for over 60 years, and develops, produces and distributes liquid application systems for the textile and non-woven fabric industries, among others. In addition to its headquarters near Stuttgart, **WEKO** has production sites in Germany and Brazil, as well as separate sites for sales and services in Italy, the UK, the US and Brazil. **WEKO's** experts support companies around the globe in choosing application systems for liquids and powders and in integrating them into the production process. Comprehensive services, such as tests conducted in the **WEKO** technical laboratory and high service standards complete our offer.



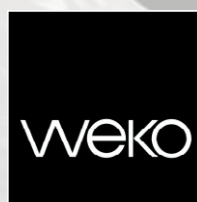
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