

Description

Highly wash-resistant hydrophilic finishing agent and soil-release product based on recycled raw materials for padding or exhaust applications on woven, nonwoven or knitted fabrics made of synthetic fibres, especially PES fibres or their blends with cellulosic fibres. Confers a supple, soft and cool handle (micro touch effect) to the substrate.

Performance Highlights

- highly wash-resistant hydrophilic properties, absorptive power and soil-release effects
- easy washing off of pigment and fat-containing soil
- improvement of synthetic textiles' antistatic properties
- supple handle (micro touch effect)
- improvement of wearability
- suitable for coloured and white fabrics
- easy handling
- excellently suitable for padding or exhaust application
- suitability for WEKO liquid application system (WFA) pending

Product Characteristics

Active substance: approx. 24 %

Ionic character: non-ionic

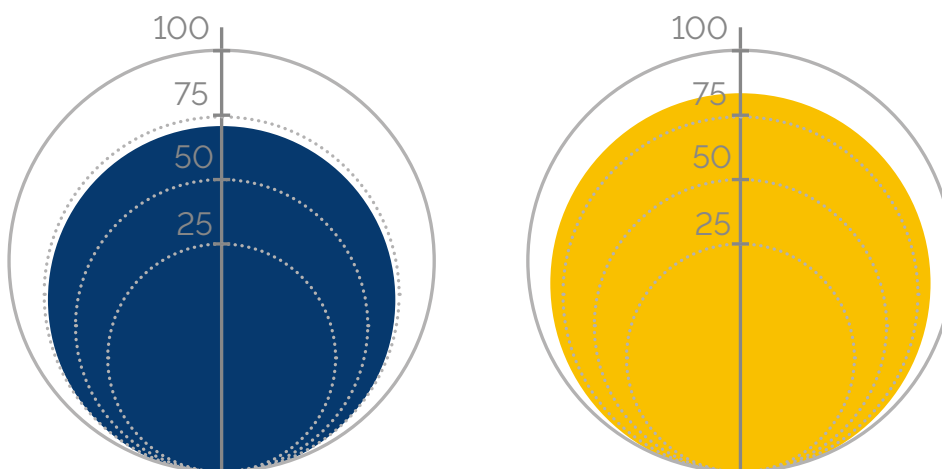
Appearance: turbid, yellowish, slightly viscous liquid

Technology: preparation of carboxylic acid esters (source: recycled PET bottles)

pH: approx. 4.5

specific gravity: at 20 °C approx. 1.0 g/cm³

Wicking acc. to DIN 53924 after 10 x 40° C wash cycles. Rising height length after 180s (mm)

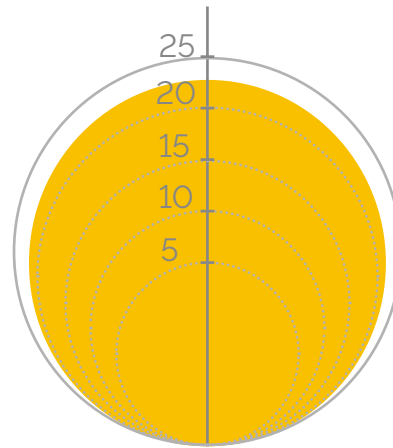
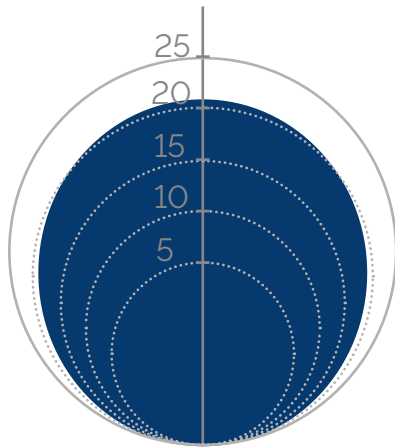


Rising height length after 180 s (mm)

Conventional polymer

FERAN® UPCYCLE ICT

Evaporation acc. to M&S P136A after 10 x 40° C wash cycles

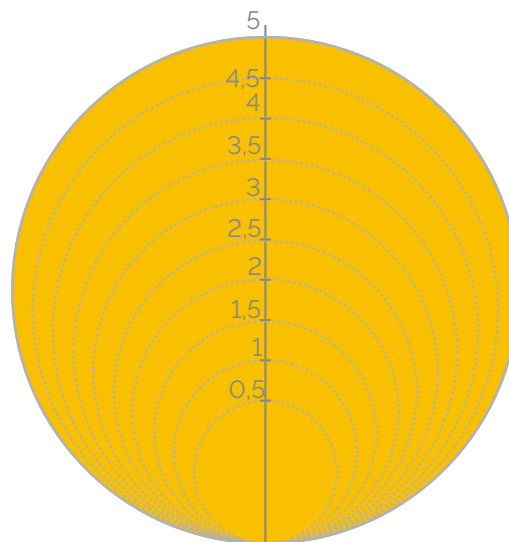
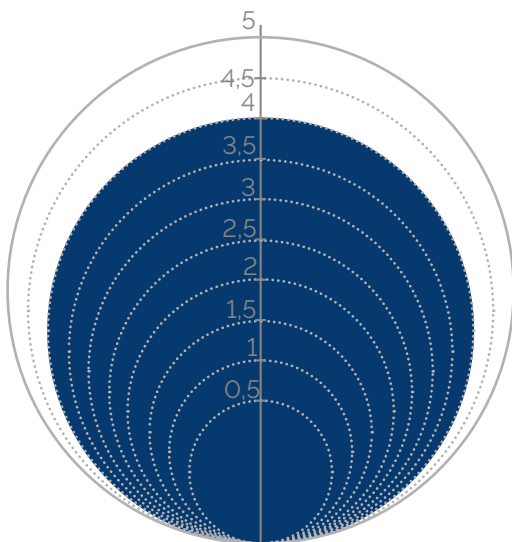


Evaporation (%)

Conventional polymer

FERAN® UPCYCLE ICT

Oily stain release acc. to AATCC 130, after 10x40° C wash cycles



Rating (after 1x40° C wash cycle)

Conventional polymer

FERAN® UPCYCLE ICT

Guideline Application and Recipe

FERAN® UPCYCLE ICT can be applied by exhaust or padding process. An optimum efficiency of **FERAN® UPCYCLE ICT** can only be achieved if the textile to be finished is free of water-repellent residual substances, which can often be found as preparations on elastomeric fibres. The product should not be combined with softening agents with water-repellent effects.

The dyeing process, too, may adversely affect the finishing results. The dyestuff selection plays a decisive role.

In case of fastness problems with migrating dyestuffs or appearance of so-called water spot markings on the finished textile, priority has to be given on the exhaust process. If there are problems regarding fastness or yellowing with the drying temperatures used, the adaption of the drying temperature and/or duration time is recommended. Preliminary tests are recommended in each case.

Padding process

10 - 60 g/l **FERAN® UPCYCLE ICT**

pH value 4.5 - 5 (acetic)

liquor pick-up 30 - 60 %

dry under usual conditions

Exhaust process

1 - 6 % **FERAN® UPCYCLE ICT** -o.w.o.f.-

pH value 4.5 - 5 (acetic)

heat up to 50 - 70 °C

reaction time 20 min

Certifications

bluesign® APPROVAL pending

GOTS 6.0 approval by ECOCERT Greenlife pending

ZDHC MRSL (2.0) compliant

ZDHC Gateway - Conformity pending

Standard 100 by OEKO-TEX® (suitable for class I-IV)

Suitable for the production of GRS (Global Recycled Standard) certified textile products

Contact us

www.rudolf-group.com