

Description

RUCO[®]-DRY ECO PLUS is a high performance water repellent textile finishing agent made from non-fluorinated and renewable materials. **RUCO[®]-DRY ECO PLUS** is suitable for all types of fibres and protects finished textile goods from challenging rain conditions, mechanical stress and various household stains. Textiles finished with **RUCO[®]-DRY ECO PLUS** can be branded **BIONIC-FINISH[®] ECO**.

Performance highlights

- superior water repellency on natural fibres, synthetics and blends providing long-lasting protection from rain and aqueous stains
- excellent resistance to home laundering allowing 30x washes and more
- breathability of fabrics is retained thus providing comfortable wear of finished articles
- outstanding abrasion resistance turning the water repellent finish suitable for most challenging technical applications
- high stability and processability of finished goods including excellent lamination properties for post-processing of finished fabrics
- compatible with commonly used wetting agents, fillers and crosslinking agents
- free of halogenated compounds and alkylphenol ethoxylates (APEO)

Product characteristics

Ionic character: cationic/ non-ionic

Appearance: off-white aqueous emulsion

Technology: dendrimers

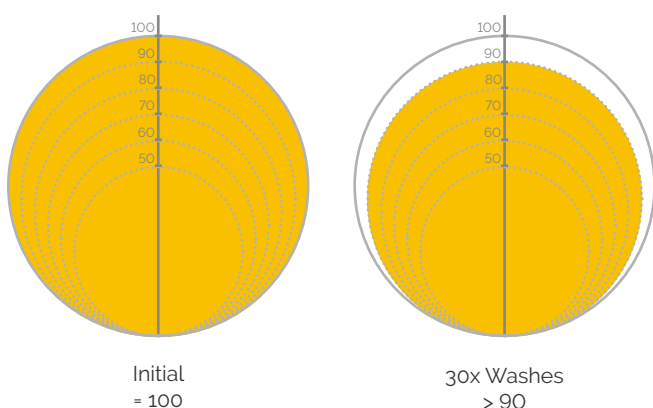
pH: 3.0 - 7.0

Density: ca. 1.00 g/cm³

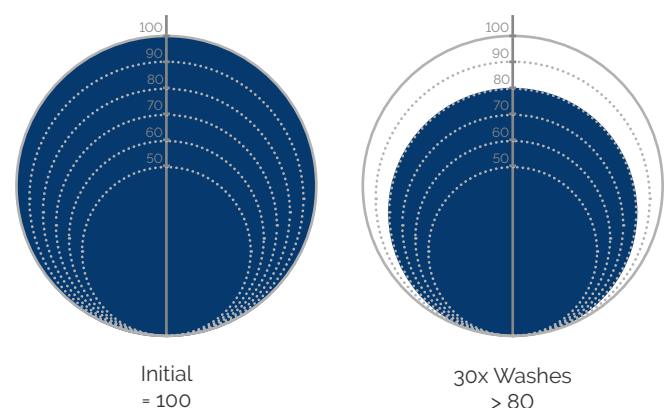
Performance overview

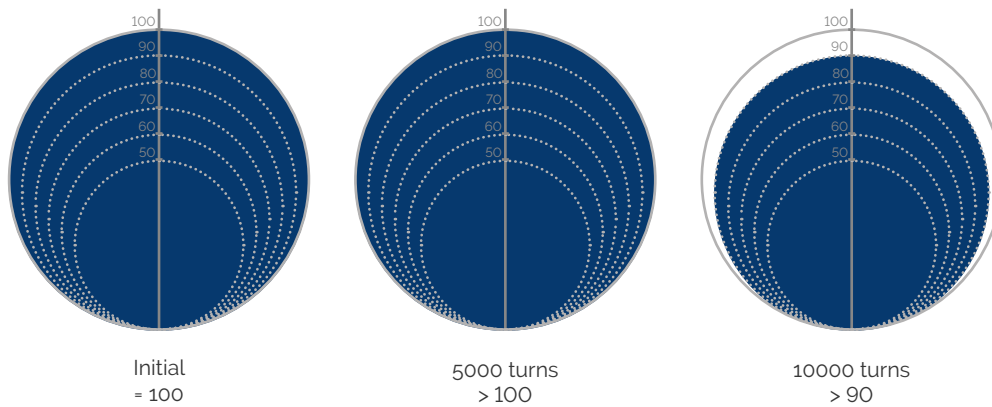
Water spray repellency (AATCC22) after home laundering at 40°C (ISO6330)

Synthetics



Cellulosics





Guideline application and recipe

Application steps for padding

- prepare and acidify the finishing bath to pH 3.5 - 5.5 using e.g. acetic acid
- add auxiliaries such as crosslinking agents, wetting agents and fillers if required
- add **RUCO®-DRY ECO PLUS**
- adjust wet-pick up of fabric to 40 - 80 %
- dry at 120 °C and cure at 160 °C (60 sec)

Example recipes

Demonstrated examples include RUDOLFGROUP auxiliaries such as wetting agents (**RUCOWET®**) and blocked crosslinking agents (**RUCO®-LINK**)

Synthetics

2 g/L Acetic acid 60 %
30 - 100 g/L **RUCO®-DRY ECO PLUS**
4 - 12 g/L **RUCO®-LINK XHC**
10 g/L **RUCOWET® FN**

Cellulosics and blends

2 g/L Acetic acid 60 %
70 - 100 g/L **RUCO®-DRY ECO PLUS**
20 - 30 g/L **RUCO®-LINK XHC**
10 g/L **RUCOWET® FN**

Certifications

bluesign® approved
GOTS approved
ZDHC MRSL compliant
Standard 100 by OEKO-TEX® (suitable for class I-IV)