

## Description

**RUCO®-DRY ECO PSS** is a high performance water repellent textile finishing agent made from non-fluorinated and non-persistent materials. **RUCO®-DRY ECO PSS** has been designed to provide an unprecedented softness and avoid unsightly chalk marks on delicate synthetic fibres. Textiles finished with **RUCO®-DRY ECO PSS** 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
- superb soft fabric handle compared to conventional water repellent finishes
- complete elimination of unsightly chalk marks on delicate synthetic textiles
- enhanced resistance to seam slippage
- breathability of fabrics is retained thus providing comfortable wear of finished articles
- 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 extenders
- free of halogenated compounds and alkylphenol ethoxylates (APEO)

## Product characteristics

Ionic character: cationic/ non-ionic

Appearance: off-white aqueous emulsion

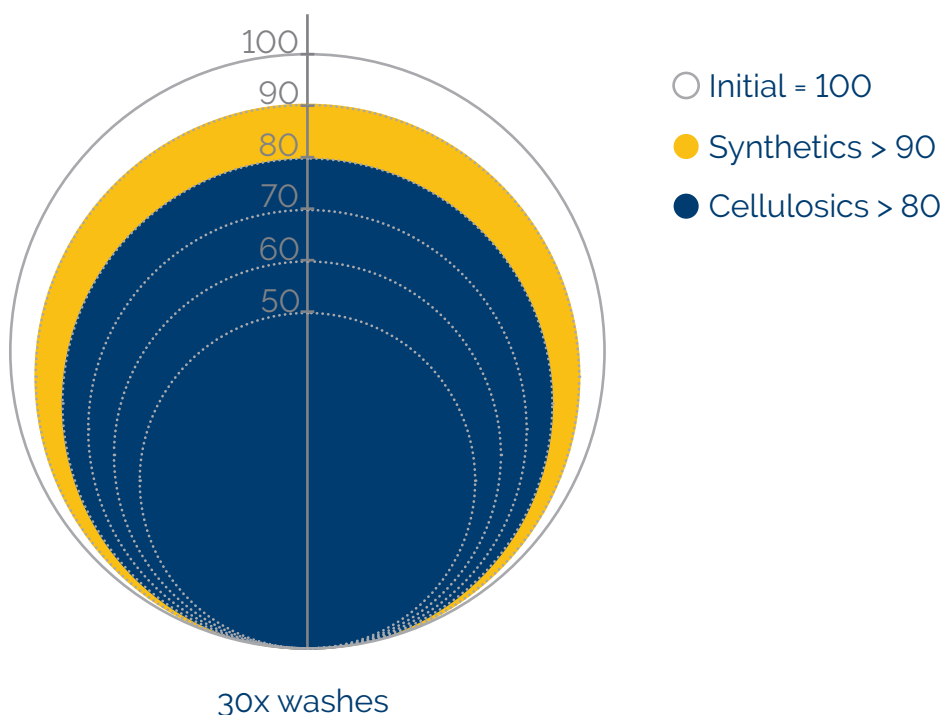
Technology: dendrimers

pH: 3.0 - 5.0

Density: 1.0 g/L

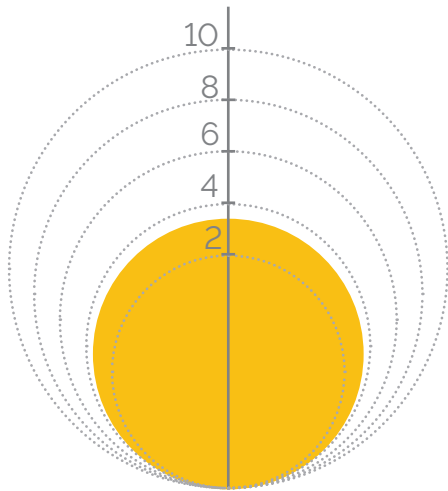
## Performance overview

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

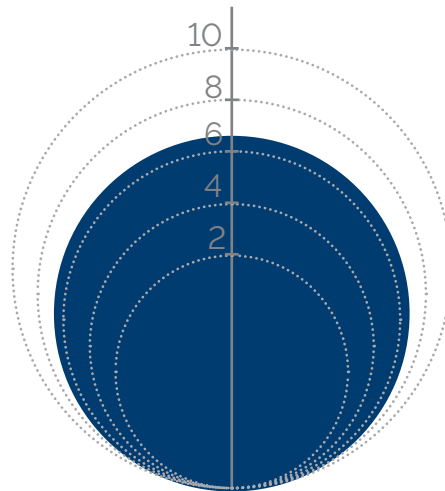


● RUCO®-DRY ECO PSS > 3,2

● Conventional > 6,4



elongation (mm)



elongation (mm)

### 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 crosslinkers, wetting agents and fillers if required
- add **RUCO®-DRY ECO PSS**
- 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 PSS**  
4 - 12 g/L **RUCO®-LINK XHC**  
10 g/L **RUCOWET® FN**

#### Natural fibres 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)

Contact us

[www.rudolf-group.com](http://www.rudolf-group.com)