

## Description

RUCO<sup>®</sup>-COAT BC 7065 is a high performance water repellent textile finishing agent made from non-fluorinated and renewable materials. RUCO<sup>®</sup>-COAT BC 7065 is suitable for all types of fibres and protects finished textile goods from challenging rain conditions, mechanical stress and various household stains.

Textiles coated or finished with RUCO<sup>®</sup>-COAT BC 7065 can be branded BIONIC-FINISH<sup>®</sup> ECO. Textiles coated with RUCO<sup>®</sup>-COAT BC 7065 can be branded HYBRIDTEX<sup>®</sup>.

## Performance highlights

- superior water repellency on natural fibres, synthetics and blends providing long-lasting protection from rain and aqueous stains
- excellent durability 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 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 - 7.0

Density: 1.08 g/L

## Guideline application and recipe

*Application steps for padding:* pad / dry 120 °C / cure 160 °C

- 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<sup>®</sup>-COAT BC 7065
- adjust wet-pick up of fabric to 40 - 80 %
- dry at 120 °C and cure at 160 °C (60 sek)

### *Example recipes*

Demonstrated examples include RUDOLF GROUP auxiliaries such as wetting agents (RUCOWET<sup>®</sup>) and blocked crosslinking agents (RUCO<sup>®</sup>-COAT FX).

2 g/L Acetic acid 60 %

30 - 100 g/L RUCO<sup>®</sup>-COAT BC 7065

10 - 30 g/L RUCO<sup>®</sup>-COAT FX 8041

10 g/L RUCOWET<sup>®</sup> FN

*Application steps for coating:*

Water	933 - 831 g/kg
<b>RUCO®-COAT TH 5020</b>	7 - 9 g/kg
<b>RUCO®-COAT AD 7070</b>	10 g/kg
<b>RUCO®-COAT BC 7065</b>	40 - 100 g/kg
<b>RUCO®-COAT FX 8041</b>	20 - 50 g/kg

Viscosity (Brookfield Sp 06, 50 rpm) approx. 8 – 10.000 mPa\*s

Screen coating with 125 mesh screen or knife-over-roller coating

Drying 100 °C, Curing 150 °C / 1 min

**Certifications**

bluesign® 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)