

Product Information Finishing Auxiliaries

Evo[®] Protect DWA

Function For water-repellent finishing of woven and knitted fabrics and yarns made of cotton and other cellulosic fibres, as well as blends with synthetic fibres, 100% PES, PA and PAN

- Properties**
- PFC-free repellent agent
 - very good water repellency
 - rainproof finishing
 - does not provide oil repellent effects
 - fast to home laundering up to 60 °C
 - pleasant handle on cellulosic fibres and blends, sometimes voluminous handle on synthetic fibres
 - pad application is preferred, for exhaust application pre-trials to check the performance is recommended
 - preferred yarn application is on bobbins
 - approved by Bluesign

Chemical Characteristics Compound of modified fatty derivatives

Technical Data

| | |
|------------------|---|
| Appearance: | white to yellowish dispersion |
| pH value: | approximately 5 |
| Density (20 °C): | approx. 1.0 kg/l |
| Ionicity: | slightly cationic |
| Shelf life: | 6 months in original closed containers. Do not store product below + 3 °C and above 35 °C. Thaw after frost effect and stir well before each use. |

Application

Pad application

100% cotton fabrics

| | |
|-----------------|-----------------|
| 40.0 - 70.0 g/l | Evo Pret RCI |
| 20.0 - 50.0 g/l | Evo Protect DWA |
| 5.0 - 10.0 g/l | Evo Soft PEN |

Pick-up: 70 – 80 %

Dry at 100 - 130 °C / cure at 140 – 170 °C / 60 – 30 s

PES/CO fabrics

| | |
|------------------|-----------------|
| 20.0 - 40.0 g/l | Evo Pret RCI |
| 80.0 - 120.0 g/l | Evo Protect DWA |
| 5.0 - 10.0 g/l | Evo Soft PEN |

Dry at 100 - 130 °C / cure at 140 – 170 °C / 60 – 30 s

Fabrics made of PES and PA

| | |
|------------------|-----------------|
| 80.0 - 120.0 g/l | Evo Protect DWA |
| 5.0 - 10.0 g/l | Evo Soft PEN |

Dry at 100 - 130 °C / cure at 140 – 170 °C / 60 – 30 s

Exhaust application

100% CO fabrics

| | |
|-------------|-----------------|
| 4.0 - 6.0 % | Evo Protect DWA |
| 0 – 6.0 % | Evo Pret RCI |

| | |
|---------------|-----------------------------------|
| Liquor pH: | 5 - 5.5 adjusted with acetic acid |
| liquor ratio: | 8:1 to 20:1 |
| Treatment: | at 20 – 25 °C (5 minutes) |
| | at 40 °C (30 minutes) |

Drop bath without rinsing, spin the goods

Dry at 100 - 130 °C / cure at 140 – 170 °C / 60 – 30 s

Yarns made of CO, PES and PA

| | |
|-------------|-----------------|
| 4.0 - 6.0 % | Evo Protect DWA |
|-------------|-----------------|

| | |
|------------|-------------------------------------|
| Liquor pH: | 5 - 5.5 adjusted with acetic acid |
| Treatment: | at 20 – 40 °C (1 K/min, 20 minutes) |
| | at 40 °C (10 minutes) |

Drop bath without rinsing, hydroextract

Dry at 100 - 130 °C

Note: for all applications pre-trials are recommended



Pretreatment before application with Evo Protect DWA

To achieve top results, the fabric must be clean and pretreated thoroughly. Residual sizes, lubricants, softeners, handle-modifiers, wetting agents, detergents and alkali impair the results. Any residual detergent can be removed by repeated rinsing in warm water. It is often advisable to apply a sequestering agent, e.g. Sera Quest M-PP, during or after washing.

Residual amounts of alkali can be neutralized by adding acetic acid to the last rinse bath.

The goods must be set at pH 4 by adding acetic acid in the final rinse bath.

Naturally, machinery must not be contaminated with detergents or with desizing or wetting agents.
