



Biodegradable Cold
Sizing Agent

Paratex 404

DESCRIPTION

Watersoluble lubricant for warp cold sizing

APPLICATIONS

- Cold sizing agent for the lubrication of warp yarns made out of spun wool, cotton, flax, and blends
- Lubrication of synthetic flat or textured warp yarns
- Also suitable for yarns containing elastane

ADVANTAGES

- Sizing agent applied in room temperature conditions, allowing to eliminate energy consuming hot sizing steps
- Fast drying in room temperature, leaving a thin protective layer over yarns
- Strongly decreases yarn/yarn friction during weaving processes
- Very simple elimination through conventional washing processes without need for solvents
- "Readily biodegradable": reached the Pw1 level (the highest level) under the Norm OECD 301 B
- Harmless on elastane. In case of heat treatment, it is recommended to degrease the parts before the operation
- Complies with the OEKO-TEX® standard 100 requirements

RECOMMENDATIONS

Method of Application

- Product not to be mixed with water for its application
- We recommend the use of a pump to keep the product mobile in the warping machine's recipient

De-Oiling

Best conditions for a good removal:

- Temperature included between 40 °C and 80 °C
- pH from 7 to 8
- 1 to 2 g/l of detergent from our Deterfix range
- As an environmentally friendly product, Paratex 404 has not been designed to be eliminated using solvents

Quantities to be used

- Continuous yarns: 2 - 3 %
- Dyed polyester: 1,5 - 2 %
- Spun yarns: 3 - 6 %

NB: ratio in % are given according to the weight of textile fibers transformed

This lubricant used as recommended and for the application for which it has been designed does not present any particular risk. A material safety data sheet conforming to the regulations in use in the E.C. can be obtained from your local commercial adviser or down loaded at ms-sds.totalenergies.com



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RECOMMENDATIONS

Storage

- Temperature from 5 °C to 40 °C
- Drums must be stored at the recommended temperature a few days before using
- Not to be exposed to temperatures below 0 °C
- Shelf Life: 1 year from TotalEnergies's delivery date

Approval

- Tested by INVISTA™ laboratory and judged compatible before heat-setting on yarns containing Lycra®. INVISTA™ recommend the use of this product on Lycra®. Lycra® being the trademark registered by INVISTA™ for elastane yarns

TYPICAL CHARACTERISTICS

Aspect at 20 °C	Liquid
Density at 20 °C	1,05
Viscosity at 20 °C	85 – 115 cSt
pH of commercial product	6,1 - 7

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