

# PARATEX 404



*Biodegradable Cold Sizing Agent*



**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 2g/l of detergent from our DETERFIX range
- As an environmentally friendly product, PARATEX 404 has not been designed to be eliminated using solvents.



TOTAL

### **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.*

### **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 TOTAL'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	PARATEX 404
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

Above characteristics are mean values given as an information.