



# ITOGUARD AQUASHIELD+

**PFC-free water-repellent agent for cellulosic, synthetic, and blended fabrics, offering superior performance compared to conventional paraffin wax or acrylate-based products.**

## CHARACTERISTICS

**ITOGUARD AQUASHIELD+** is a specially developed, high performance PFC-free water-repellent treatment for cellulosic, synthetic, and blended fabrics.

Key features and benefits of **ITOGUARD AQUASHIELD+**:

- Durability to dry cleaning
- High performance at low concentrates compared to other DWR treatments
- Fulfils the requirements of various leading garment retailers.

Key considerations:

- Preliminary trials are recommended before bulk processing
- For optimum results with **ITOGUARD AQUASHIELD+**, pick up should be more than 70%
- Minimum recommended curing temperature is 145°C
- Re-curing will improve results
- **ITOGUARD AQUASHIELD+** should not be used with phosphorous and ammonium phosphophate based FR products
- Before treatment, fabric should be at room temperature

## DISCLAIMER

The information herein offered is based on the best of our knowledge at present. However, we are not able to guarantee these matters, as the result of application may vary according to conditions adopted. Preliminary tests are, therefore, recommended in all cases. Please refer to MSDS regarding handling of the products.

## PHYSICAL PROPERTIES

- **Appearance** : Off-white liquid
- **Ionic status** : Non-ionic to weakly cationic
- **pH value** : 5.0 +/- 1
- **Miscibility** : Miscible with water
- **Compatibility** : Compatible with cationic and non-ionic products
- **Stability** : Stable to dilute acids and under alkaline conditions
- **Conditions** : Store in a well-sealed container between 5 and 35°C
- **Shelf Life** : 9 months the date of manufacturing, if stored under controlled conditions

## APPLICATION

**In padding:**

- **ITOGUARD AQUASHIELD+** : 30 - 150 g/l
- **Pick-up** : 60 - 80%
- **Bath pH** : 6.0 - 7.0
- **Drying** : 120°C for 2 min.
- **Curing\*** : 145 - 150°C for 3 min or 170°C for 40 seconds.

\*In case of polyester, at maximum pick up, curing at temperature 145 - 150°C gives better spray rating.

**Exhaust process for garment/fabrics:**

- **ITOGUARD AQUASHIELD+** : 3 - 15%
- **ITOXLINKER LJ10** : 1 - 1.5% (optional for improved washing durability)
- **Liquor Ratio** : 10 : 1
- **Bath pH** : 6.0 - 7.0
- **Bath Temperature/Time** : 20-40°C for 30-40 minutes



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