Status: 11/13/2026

Terasit Lotus

Fiber Protection and Waterproofing



Properties

- Aqueous, low-fluorine fabric finishing agent
- water-, oil-, and dirt-repellent
- Treated textiles remain breathable
- Effective even at low condensation temperatures

Application

The product may contain traces of perfluorohexanoic acid (PFHxA) and is therefore regulated by (EU) 2024/2462.

Use of the product is permitted only for the following textiles:
- Personal protective equipment (PPE) intended to protect users from risks listed in Annex I to Regulation (EU) 2016/425, Category III, letters a, c through f, h, and I.
- Textiles that fall within the scope of Regulation (EU) 2017/745 on medical devices (MDR) as medical devices.
- Textiles for military, emergency response, or law enforcement personnel,
- other workwear, protective clothing, and other textiles intended exclusively for occupational or industrial activities

1. Dip-and-roll process

By default, application using the dip-and-roll process takes place in the final rinse bath after the liquid level has been reached and drum rotation has begun.
Before impregnation, the cleaned textiles must be thoroughly rinsed to remove all detergent and alkali residues, as even small amounts of detergent can impair the effectiveness of the treatment. The finishing bath should have a pH value of 5–6. Adding acetic acid or formic acid may be necessary to achieve this. The required amount of Terasit Lotus is added to the finishing bath. The fabric is treated, briefly spun dry, and dried; for membrane textiles, spin at several intervals.
The required quantities must be adjusted to the specific conditions. A treatment time of 15 minutes is recommended to achieve the highest possible waterproofing effect.
Drying should be performed at full heating capacity. To ensure the impregnation effect takes full effect, a drying temperature of 80 °C at the drum outlet is required for at least 7 minutes (follow the care label instructions).

2. Machine Spraying Method

Terasit Lotus can also be applied using a spraying method.
Modern, professional washing machines can be equipped with a spraying device for finishing agents. In this case, it is possible to spray Terasit Lotus onto the washed, spin-dried goods in a cost-effective manner that minimizes wastewater.
After spraying, the items are tumbled for another 3–5 minutes.
Spray application outside the machine is not permitted.
Drying depends on the temperature tolerance of the treated items. These are dried in a tumble dryer or hung to dry at room temperature (such as leather items). A noticeable water-repellent effect is already achieved when drying at 30 °C. Higher temperatures are required for the water-repellent effect to take full effect.

Quality Requirements (Depending on Material and Process)

Using the procedures described, the requirements in accordance with or based on

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DIN EN 24920 (water-repellent properties (spray test))
DIN EN ISO 14419 (oil-repellent finish)
DIN EN 469 (resistance to penetration by liquid chemicals)
EN ISO 15025 (Effect of impregnation on flame spread)
DIN EN ISO 811:2018-08 (Resistance to water penetration).

Please note that a dosage of 40 ml/l of Terasit Lotus is generally required for this application.

Dosing

PPE Equipment	
Concentration	25 - 30 ml / l solution
Temperature	30 - 40 °C
Exposure time	10 - 15 min.
Addition	Ratio of 1:3 to 1:4

Technical data

Density (20°C)	pH-value
1,00 kg / l	3,5

Notes

Store the product only in its original container and protect it from freezing.
After removing a portion of the product, the container should be resealed. your standard attribute value

For commercial use only. This leaflet is for non-binding information only. The information is based on our current knowledge and experience. In any case, the user is obliged to carry out his own tests and trials to check the suitability of the products for his intended processes and purposes. The information in this leaflet does not constitute a guarantee for the quality and durability of the goods to be supplied by us. We reserve the right to make technical changes within the scope of what is reasonable. The current version of the corresponding EU safety data sheet must also be observed.

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