

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 of Regulation (EU) 2016/425, Category III, letters a, c through f, h, and l. Textiles that fall within the scope of Regulation (EU) 2017/745 on medical devices (MDR) as medical devices.

1. Dip-and-roll method

By default, application using the dip-and-roll method takes place in the final rinse bath once the liquid level has been reached and the drum begins to rotate.

Before impregnation, the cleaned textiles must be thoroughly rinsed to remove all detergent and alkali residues, as even small amounts of detergent can impair performance. The finishing bath should have a pH value of 5–6 may be required. This may necessitate the addition of acetic acid or formic acid. 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-dry at several intervals.

The required quantities must be adjusted to the specific conditions. A finishing time of 15 minutes is recommended to achieve the maximum 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 (observe care labels).

2. Machine Spraying Method

Terasit Lotus can also be applied using a spraying method.

Modern, professional washing machines can be equipped with a spray system for finishing agents. In this case, it is possible to apply Terasit Lotus cost-effectively and in an environmentally friendly manner to the washed, Spray the goods while they are still damp from the spin cycle.

After spraying, tumble for another 3–5 minutes.

Spraying 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 waterproofing effect is already achieved when drying at 30 °C. Higher temperatures are necessary for the waterproofing effect to take full effect.

Quality Requirements (Depending on Materials and Processes)

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

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

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