

Terasit Lotus

Wet impregnating agent on fluorocarbon resin basis

Properties:

- aqueous protective fabric finishing agent
- water, oil and soil repellent finish
- finished fabrics stay permeable to the air
- soft, supple feel
- low condensation temperature
- brilliance of colour will be kept
- free of PFOA (perfluorooctanoic acid) and PFOS (perfluorooctanesulphonate)
- reduced amount of fluorinated compounds due to high-branched polymers

Application:

For garments **Terasit Lotus** is applied in a dip-tumble-process in the last rinsing bath of washing extractors. For large scale apparel a spray coat method is also suitable.

Dip-Tumble-Process

The finish with **Terasit Lotus** is applied in a single bath. The washed textiles must be free from residues of detergent and alkalis by careful rinsing before they are impregnated so that the water-repellent effect is not impaired. The dosing should be adjusted to the kind of fabric as well as to the desired effect and varied between 10 to 40 ml per litre (0.15 to 0.60 fl oz/lb). The finishing bath should have a pH value of 5 - 6. Concerning this, a dosing of acetic acid or formic acid might be necessary.

The calculated amount of **Terasit Lotus** is added to the finish bath (liquor ratio 1:3 - 1:4). The textiles are treated in the impregnating liquor for 10 minutes at 30 - 40 °C (86 - 104 °F) then centrifuged briefly. In the case of membrane textile an interval extraction is highly recommended.

Drying should be carried out under full heat capacity. Fully development of the effect is achieved at a drying temperature of 80 °C/176 °F (drum exit) for at least 7 minutes.

Spray Method

By hand, outside the machine

Dilute **Terasit Lotus** with water at a ratio of 1:4 - 1:5. Apply the solution uniformly to the textiles to be treated using a standard commercial spray gun. A heat supply of minimum 30 °C/86 °F will improve the impregnating effect.

Attention!

Spray mist should never be inhaled! A sufficient suction is highly recommended!

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Application in the machine

Modern, professional washing machines can be equipped with a spray facility for finishing agents like dry-cleaning machines. In this case it is possible to spray **Terasit Lotus** on to the washed, spin-damp textiles advantageously as far as costs are concerned and without adding any chemical load to the waste water.

Terasit Lotus should be applied at a rate of 40 ml/kg (0.6 fl oz/lb); dilution ratio with water 1:4. After spraying the textiles should be tumbled for further 3 - 5 minutes.

Drying

Depending on the temperature capacity of the textiles they are dried in a tumbler or they are hanging up to dry at room temperature (f.i. leather articles). A remarkable effect is reached with drying at low temperatures of 30 °C/86 °F. To reach a complete impregnating effect higher temperatures are necessary.

Quality Standards (dependent on material and process)

With the above mentioned methods the following requirements are fulfilled:

DIN EN 24920 Textiles; determination of resistance to surface wetting (spray test)

DIN EN ISO 14419 Textiles - Oil repellency - Hydrocarbon resistance test

DIN EN 469 Performance requirements for protective clothing for fire fighting

EN ISO 15025 (Influence of impregnation on the flame propagation)

DIN EN ISO 20811 (Influence of impregnation on the flow resistance of water)

Technical Data:

Density 20 °C (68 °F)	1.00 g/ml
pH-value (1 %)	3.0 - 4.0

Hints:

Storage

The product should be stored protected against freezing though the solidified product is fit for use again after thawing without any loss of quality.

The product can be stored for at least 12 months in its original sealed packing.

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