Lutrasil® Pro, a new generation of Crop Covering for commercial Horticulture!

Lutrasil® Pro provides optimum yield:
- Excellent durability, strength and tear resistance
- A flexible crop covering resistant to high winds
- Protection climate barrier for all horticultural crops
- Excellent water permeability, limiting water retention held in the cross section of the non-woven, thereby minimizing any damage to the crop below
- Optimum protection against pests
- Balanced temperature and humidity distribution

Lutrasil® Pro is suitable for all applications:
- A range of weights
- Standard widths and roll lengths
- A wide range of standard items available
- Responsive delivery for standard products direct from our warehouse
- Alternative roll widths and lengths are available

NEW:
- Now supplied in even longer roll lengths, but shipped in a packaged width of 1.60 m x 2.40 m
Lutrasil® Pro spunbonded for horticultural applications

<table>
<thead>
<tr>
<th>Product</th>
<th>Application</th>
<th>Variety</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro 19</td>
<td>Earlier harvests</td>
<td>Vegetable crops</td>
</tr>
<tr>
<td>Pro 19X</td>
<td>Frost protection</td>
<td>Late plants, ornamental plants, herbaceous plants, vegetables</td>
</tr>
<tr>
<td></td>
<td>Frost protection</td>
<td>Vegetable crops</td>
</tr>
<tr>
<td></td>
<td>Energy barrier in plastic tunnels and greenhouses</td>
<td>Young plants</td>
</tr>
<tr>
<td>Pro 19X</td>
<td>Winter covering</td>
<td>Vegetable crops</td>
</tr>
<tr>
<td></td>
<td>Providing shade</td>
<td>Ornamental plants, herbaceous plants, tree nurseries</td>
</tr>
</tbody>
</table>

Since 1974 Lutrasil® Pro spunbonded

Material availability:

- Special dimension on request according to our guidelines
- On request ready in stock

<table>
<thead>
<tr>
<th>Product</th>
<th>Width cm</th>
<th>Length 100 m</th>
<th>Length 250 m</th>
<th>Length 500 m</th>
<th>Length 1000 m</th>
</tr>
</thead>
<tbody>
<tr>
<td>Pro 19</td>
<td>1280</td>
<td>1100</td>
<td>1200</td>
<td>1280</td>
<td>1360</td>
</tr>
<tr>
<td>Pro 19X</td>
<td>1600</td>
<td>1500</td>
<td>1600</td>
<td>1700</td>
<td>1800</td>
</tr>
</tbody>
</table>

Note: Avoid spraying with pesticides at all times, since they may have a very detrimental effect on the effectiveness of the UV stabiliser in Lutrasil® Pro. This applies to all covering materials made of polypropylene and is therefore generally inadvisable.

Conditions than those stated here.

Particular, no basis whatsoever for liability and can, on no account, be applied to any other operating conditions.

Sole responsibility for use and application of our products, as well as for any further processing shall be deemed as merely non-binding information and standard values. Such data shall provide, in the application, function and/or possible uses of our products, even as part of our specifications, instructions for use.

Because of the variations in methods, conditions and equipment used commercially we strongly recommend that you experiment with Lutrasil® Pro in small areas first. All technical information given are based on carefully evaluated laboratory work and production tests as well as on extensive experience and are reliable to the best of our knowledge.

Note: It is absolutely essential that in the case of plants needing pollination (e.g., strawberries) Lutrasil® Pro is removed for a long enough period while they are in bloom. Once pollination is over the plants can be covered up again.

Removing Lutrasil® Pro:

- Lutrasil® Pro should be removed when the weather is dry and calm. If the soil is heavy or wet make sure that the earth weighing down the material is loosened before removal.

Spraying plants:

- Lutrasil® Pro is spread out on cultivated fields immediately after sowing or planting. This can be carried out either manually, or semi-mechanically using an unwinding (roller) device on a tractor. Lutrasil® Pro should be spread out loosely to allow enough room for the plants to grow to their full height, but without any creases in the material. Weight the edges of Lutrasil® Pro down with soil or small bags filled with soil or pebbles.

Fertilisers:

- Fertilisers can be used sparingly while maintaining a constant yield thanks to the high conversion of nutrients in the soil. Leaching of nitrates is substantially avoided. By applying fertilisers can be covered up again.

Handling Lutrasil® Pro spunbonded:

- Instructions for use
- Lutrasil® Pro spunlaids therefore make an active contribution to environmental protection in horticulture and agriculture.
Since 1974 for horticultural applications

Lutrasil® Pro spunbonded

**Product Application Variety**

- Providing shade
- Winter covering
- Lightweight winter covering
- Earlier harvests

- Greenhouses
- Energy barrier in plastic tunnels and
- Protection against insects and pests
- Frost protection

**Tree nurseries**
- Herbaceous plants
- Ornamental plants
- Vegetable crops

- and strawberries in particular new potatoes

**Vegetable crops**
- Young plants
- Vegetable crops
- Ornamental plants
- Lawns

**Material availability**

- Special dimension on request according to our guidelines
- X= with reinforcement

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</tr>
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<tbody>
<tr>
<td>Lutrasil® Pro 19</td>
<td>425</td>
<td>640</td>
<td>800</td>
<td>2050</td>
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<tr>
<td>Lutrasil® Pro 19</td>
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<td>1050</td>
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<td>1200</td>
<td>1280</td>
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<tr>
<td>Lutrasil® Pro 30</td>
<td>425</td>
<td>640</td>
<td>1050</td>
<td>1280</td>
<td></td>
</tr>
</tbody>
</table>

X= with reinforcement
Special dimension on request according to our guidelines
- Ready in stock
- On request

We recommend storing Lutrasil® Pro in a dry, dark and well aerated room.

5. Storing

3. Spraying plants

- Note: Avoid spraying with pesticides at all times, since they may have a very detrimental effect on pollinating the environment for a long time. Lutrasil® Pro spunlaids therefore make an active contribution to environmental protection in horticulture and agriculture.

2. Fertilisers

- Lutrasil® Pro is spread out on cultivated fields immediately after sowing or planting. This can be carried out either manually, or semi-mechanically using an unwinding (roller) device on a tractor. Lutrasil® Pro is removed for a long enough period while they are in bloom. Once pollination is over the plants can be covered up again.
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- We recommend storing Lutrasil® Pro in a dry, dark and well aerated room.

4. Removing Lutrasil® Pro

- The effectiveness of the UV stabiliser in Lutrasil® Pro. This applies to all covering materials made of polypropylene and is therefore generally inadvisable. Because of the variations in methods, conditions and equipment used commercially we strongly recommend that customers make their own tests to determine the suitability of our products for their own purposes.

- All technical information given are based on carefully evaluated laboratory work and production tests as well as on extensive experience and are reliable to the best of our knowledge.

- After use, Lutrasil® Pro can be disposed of in a refuse incineration plant or at a refuse tip without risk of polluting the environment for a long time. Lutrasil® Pro spunlaids therefore make an active contribution to environmental protection in horticulture and agriculture.

- We recommend storing Lutrasil® Pro in a dry, dark and well aerated room.

7. Product liability information

- Sole responsibility for use and application of our products, as well as for any further processing operations, shall be borne by the client. Any information provided in our documents with regard to the application, function and/or possible uses of our products, even as part of our specifications, shall be deemed as merely non-binding information and standard values. Such data shall provide, in particular, no basis whatsoever for liability and can, on no account, be applied to any other operating conditions than those stated here.

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**Instructions for use**

When using as covering material, Lutrasil® Pro spunbonded should not be compared to other products such as perforated plastics or textile materials. Lutrasil® Pro spunbonded provide distinct advantages for horticultural applications on account of their physical and mechanical properties.

1. **Handling Lutrasil® Pro spunbonded**
   - Lutrasil® Pro is spread out on cultivated fields immediately after sowing or planting. This can be carried out either manually or semi-mechanically using an unwinding (roller) device on a tractor. Lutrasil® Pro should be spread out loosely to allow enough room for the plants to grow to their full height, but without any creases in the material. Weight the edges of Lutrasil® Pro down with soil or small bags filled with soil or pebbles.
   - Note: It is absolutely essential that in the case of plants needing pollination (e.g. strawberries) Lutrasil® Pro is removed for a long enough period while they are in bloom. Once pollination is over the plants can be covered up again.

2. **Fertilizers**
   - Lutrasil® Pro spunbonded are not harmful to the environment and support eco-friendly methods of cultivation. Fertilizers can be used sparingly while maintaining a constant yield thanks to the high conversion of nutrients in the soil. Leaching of nitrates is substantially avoided. By applying fertilizers sparingly you can obtain optimum crop weights in spite of a reduction in the nitrate content of the soil.

3. **Spraying plants**
   - Note: Avoid spraying with pesticides at all times, since they may have a very detrimental effect on the effectiveness of the UV stabilizer in Lutrasil® Pro. This applies to all covering materials made of polypropylene and is therefore generally inadvisable.

4. **Removing Lutrasil® Pro**
   - Lutrasil® Pro should be removed when the weather is dry and calm. If the soil is heavy or wet make sure that the earth weighing down the material is loosened before removal.

5. **Storing**
   - We recommend storing Lutrasil® Pro in a dry, dark and well aerated room.

6. **Disposal**
   - After use, Lutrasil® Pro can be disposed of in a refuse incineration plant or at a refuse tip without risk of polluting the environment for a long time. Lutrasil® Pro spunlaids therefore make an active contribution to environmental protection in horticulture and agriculture.

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Lutrasil® Pro, the intelligent combination providing strength together with climate controlling endless fibres.

Lutrasil® Pro provides optimum yield:

1. Excellent durability, strength and tear resistance
2. A flexible crop covering resistant to high winds
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Lutrasil® Pro is suitable for all applications:

1. A range of weights
2. Standard widths and roll lengths
3. A wide range of standard items available
4. Responsive delivery for standard products direct from our warehouse
5. Alternative roll widths and lengths are available

Now supplied in even longer roll lengths, but shipped in a packaged width of 1.60 m to 2.40 m.

NEW:

Since 1974, SOFT N.W., located in Cerreto Castello (Bi), is a business unit specialized in the production of 100% polypropylene Spunbonded nonwoven. Present on the nonwoven market since 1974, the company has been able to evolve during these years making itself conspicuous thanks to its professional nature, service and the quality of its products.

For many years, SOFT N.W. has positioned itself in the agriculture protection market with high-quality materials, born to satisfy its customers' needs all over the world.

All the production stages, from PP granulate to sealed nonwoven for agriculture, are entirely executed in Cerreto Castello mill, using the best raw materials present on the market.

Lutrasil® Pro, the intelligent combination providing strength together with climate controlling endless fibres.

Consistent continuous fibres providing climate control whilst creating the best growth conditions for your horticultural crops.

Strong endless fibres providing high durability and strength in all directions.

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Aosta
Cerreto Castello
Genova
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