

# Wiking® Manila

**Wiking® Manila is a highly refined polypropylene fibre that has been specially developed to stabilize soil with or without turf.**

**When Wiking® Manila is mixed with the soil or the lawn, it will increase in pore space and air filled porosity of the soil considerably, which gives the following characteristics:**

- **High flexibility and an increase of the turf's load bearing capacity**
- **Rapid draining of water**

Adding Wiking® Manila to the soil will stabilize the turf, and the fibres will act like natural grass roots. The fibres will help the grass roots grow better, and thus the fibres will increase the natural growth of the grass roots.

Wiking® Manila is mixed into the soil before the grass is sown or planted. The fibre creates its own pore spaces that give an air-filled porosity.

This means that the grass can drain water and breathe better than without any fibres. This gives happier grass and an increased growth rate.

The grass roots intertwine with the fibres and create a wide network. Consequently impacts can be dispersed among the entire network, spreading and increasing the bearing capacity.

This form of stabilization of the soil gives the best results where there is a lot of traffic as with football, horse riding or any other form of sport and provides resistance to the surface where impacts occur.

Wiking® Manila is greatly advantageous on parking spaces and fire lanes where a lot of heavy traffic occurs, and it offers maximum protection against changing weather as well.

As an example, riding arenas are exposed to heavy impacts irrespective whether the area is with or without grass.

Water can furthermore be a crucial problem on arenas. Too little water, and it will turn into a dusty brick, and too much will make it muddy.

Wiking® Manila will stabilize the arena and will at all times contain the adequate amount of water that will make the arena extremely well suited in all weather.

Wiking® Manila will not cause downward percolation to the groundwater and can be purified by normal, well-known screening methods.

## Application:

- All forms of sports venues where heavy impacts and wear and tear occur
- Riding arenas
- Natural grass access roads
- Natural grass car parks.

## Properties:

- Provides the perfect surface for all forms of sport
- Bearing capacity is increased
- Offers increased shear strength
- Reduces mud, dust and frost-bound surfaces

## Advantages:

- Offers greater resistance to wear and tear
- Produces a surface which stays flexible, porous and level for longer
- Aids rapid draining
- Provides a durable turfed load bearing surface
- Bouncy absorption
- Savings as far as maintenance is concerned

## Product programme:

Wiking® Manila fibres are available in lengths of 12, 18 and 24 mm. Packing as agreed

## References

Stald Nørregård, Vittarp DK

### Specifications - Wiking® Manila:

There are a number of scientific tests and practical applications that document the unique advantages of Wiking® fibres.

<b>Raw material:</b>	<b>Polypropylene C<sub>3</sub> H<sub>6</sub></b>
<b>Fibre length:</b>	<b>12 and 18 mm - more if requested</b>
<b>Fibre diameter:</b>	<b>35 x 250-600 µ</b>
<b>Density:</b>	
- Wiking® standard	0.91g/cm <sup>3</sup>
- Wiking® special	1.01g/cm <sup>3</sup>
<b>Maximum load*:</b>	<b>340 - 500MPa</b>
<b>Elasticity conversion*:</b>	<b>8.5 - 12.5GPa</b>
<b>Maximum tension*:</b>	<b>Max. 8 - 10%</b>
<b>Softening temp.*:</b>	<b>Approx. 145°C</b>

\* Measured in accordance with Danish Fibres test procedures.