

Urbscape® Green Flocks

November 2017

Description

Urbscape® Green Flocks are made of needled rock mineral wool. Green Flocks are used as a growing medium for the professional cultivation of plants or as a high quality soil enhancer used to improve soil and save water in a variety of different landscaping applications.

Urbscape® landscaping and landscape-shaping materials are made from natural, locally sourced volcanic rock. Rock mineral fibres are produced in a heating process entirely without any chemical binders and have superior water storage and release properties that make water and nutrients easily accessible to plants. This in turn improves soil structure and reduces environmental stress on plants.



Applications

Mixing evenly with soil or any other growing media improves water retention capacity and aeration.

Where to use it

- Landscaping applications (lawn areas, slope greening, urban tree planting, design of shaped patios,...)
- Containers

Why

- Improves soil/substrate characteristics
- Reduces environmental stress on plants
- Plant growth and roots' development
- Produces more vigorous and resistant plants
- Improves soil tilth (soil becomes loose and fluffy)

Benefits

- | | | | |
|--|--|--|--|
|  High water absorption |  Reduced irrigation frequency |  Reduced fertilizer consumption |  Improved root growth |
|  Stronger plants |  Efficient installation |  Sustainability |  Improved water air ratio |

KNAUFINSULATION


urbanscape

Above and beyond

Technical Properties of Urbanscape® Green Flocks

| Characteristic | Unit | Value | Standard |
|---------------------------|---|-------------------|----------|
| Specific weight | kg/m ³ (lb/ft ³) | 200 (12.5) | |
| Ignition loos | %wt | max. 0.2 | |
| Fibre diameter | µm (µin) | approx. 4.5 (177) | SK_109 |
| Flock size | mm (in) | ~20 (~0.8) | |
| Colour | | Grey/Green | |
| Initial water absorption* | times | 7 | |
| pH (CaCl ₂) | | 7.5 | |

*The ratio of the weight of water absorbed by a material to the weight of the dry material.
 Certificates: EUCEB, RAL, ISO 9001, ISO 14001, OHSAS 18001

Usage / Installation

- Mix with any substrate or other growing media to improve water retention capacity and aeration. Water in the planting container is evenly


distributed and intervals between watering are longer.

- Mix into sandy or loomy soil to improve aeration and water distribution. Water


is easily available for plant uptake.

- We recommend mixing at least 20% of Green Flocks into the growing medium. The more you add, the better are results.

1. Simple to use



Mix Green Flocks by hand or with tools into the garden or field soil at a ratio of 1:5 (1/5 flocks mixed with 4/5 substrate).



Prepare the planting pit. Mix Green Flocks with the field soil or purpose substrate at a ratio of 1:5 (1/5 flocks mixed with 4/5 substrate).

2. Usual care




Plant or sow plants and water them well. Green Flocks should be covered with soil.

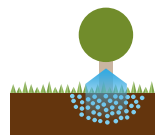


Plant shrubs and trees, cover all exposed roots with the mixture and water well. Flocks should be covered with layer of soil to prevent the evaporation additionally.

3. Less watering



Green Flocks retain additional water, so that the plant may access it as required.



Green Flocks retain additional water thus the shrubs and trees may access it when required.

Recommendations

By adding Urbanscape® Green Flocks to the soil you achieve:

- better growing medium characteristics
- less environmental stress on the plants
- better plant growth
- better plant vigour & resistance

Mixing regular soil with Urbanscape® Green Flocks improves soil structure and produces higher yields. At the same time watering can be reduced by up to 50%. Results may vary due to the type of soil, vegetation and climatic conditions. It is

recommended to mix at least 20% of Green Flocks into regular soil or growing substrate. The more Green Flocks are added, the better results are achieved. Especially recommended for outdoor growing.

Packaging of Urbanscape® Green Flocks

| Product | pallet size (mm) | kg/bag | bags/pallet | kg/pallet | pallet/cont (HC 40 ft) | bags/cont (HC 40 ft) | kg/cont (HC 40 ft) | pallet/truck (13,6 m) | bags/truck (13,6 m) | kg/truck (13,6 m) |
|----------------------------|--------------------|--------|-------------|-----------|------------------------|----------------------|--------------------|-----------------------|---------------------|-------------------|
| Green Flocks 15kg (469822) | 1200 × 1200 × 1400 | 15 | 28 | 420 | - | - | - | 44 | 1.232 | 18.480 |
| Green Flocks 22kg (599273) | 1050 × 1050 × 1250 | 22 | 12 | 264 | 44 (22*) | 528 (572*) | 11.616 (12.584*) | 52 | 624 | 13.728 |
| Green Flocks 22kg (615954) | 1050 × 1050 × 1250 | 22 | 14 | 308 | 22* | 572* | 12.584* | 52 | 728 | 16.016 |

| Product | pallet size (ft) | lb/bag | bags/pallet | lb/pallet | pallet/cont (HC 40 ft) | bags/cont (HC 40 ft) | lb/cont (HC 40 ft) | pallet/truck (44,6 ft) | bags/truck (44,6 ft) | lb/truck (44,6 ft) |
|----------------------------|------------------|--------|-------------|-----------|------------------------|----------------------|--------------------|------------------------|----------------------|--------------------|
| Green Flocks 15kg (469822) | 3.9 × 3.9 × 4.6 | 33.07 | 28 | 926 | - | - | - | 44 | 1.232 | 40.741 |
| Green Flocks 22kg (599273) | 3.5 × 3.5 × 4.1 | 48.50 | 12 | 582 | 44 (22*) | 528 (572*) | 25.609 (27.743*) | 52 | 624 | 30.265 |
| Green Flocks 22kg (615954) | 3.5 × 3.5 × 4.4 | 48.50 | 14 | 679 | 22* | 572* | 27.743* | 52 | 728 | 35.309 |

*combined loading - 22 pallets of 599273 + 22 pallets of 2615954