



# HappiRoot

Products



# smart

## TECH



Smart Tech Ltd, Smith Building, Jordanhill Campus, 76 Southbrae Drive, Glasgow G13 1PP, Scotland, UK

Telephone 0141 950 3497 · Facsimile 0141 950 3496

web [smart-tech.uk.com](http://smart-tech.uk.com) · email [info@smart-tech.uk.com](mailto:info@smart-tech.uk.com)

Smart Tech Registered Office: 6 Kilmardinny Grove, Bearsden, Glasgow G61 3NY, Scotland UK

VAT No: 743 4354 38





# HappiRoot®

THE  
Plant Friendly Growing Medium

## HappiRoot® Granules

Happiroot® is unique to Smart Tech Ltd and is a patented neutral polymeric material based on poly(ethylene oxide).

Happiroot® is one of a family of hydrogel-forming biocompatible polymers developed by Smart Tech® Ltd. HappiRoot Granules make an ideal additive to compost assisting retention of water and soil aeration. Happiroot® can be recycled in compost and will retain their properties after composting at temperature.

Happiroot® will biodegrade safely in the environment. The process is accelerated by sunlight and the presence of water.



## Smart Cushion®

The Smart Cushion® watering system is designed to water plants efficiently and reliably providing a significant solid reservoir of water, which is gradually, released to plants roots.

Placed under or alongside a plant, Smart Cushion® provides a continuous and predictable release of water for a prolonged period of time. Plants can therefor be maintained in a healthy condition for extended periods, with virtually no need for manual watering .

When the plant needs to be watered just top with the recommended volume of water. The water will percolate down, reinvigorating the soil and re-fill the Smart Cushion®.

Standard Smart Cushions are available in a range of sizes from ½ to 10 litres and bespoke sizes are possible.



## Smart Reservoir®

The SmartReservoir® is an environmentally friendly, water efficient, low maintenance system, which with our unique HappiRoot® material provides controlled release watering at root level eliminating watering problems.

The SmartReservoir® patented watering system simplifies plant care and can at least double the watering interval providing stunning plant displays.

SmartReservoir® is available in a range of sizes for greenery, flowering plants, shrubs and trees, can be used in planters, troughs, hanging baskets, tabletops, flower towers, pouches and much, much more...



## Smart Slice®

The Smart Slice® is a very simple solution for care-free watering and maintenance of plants. Smart Slice® enables watering intervals to be extended to weeks, making them ideal for covering holiday periods.

Just soak the slices for a while and they become controlled release reservoirs. When placed at the base of your plant they will provide water to the roots of the plant.

The slices can also be used in layers or cut to shape when wetted; ideal for hanging baskets or planters with special shapes. The dried out slices can be refreshed by watering normally from the top.

The swollen Smart Slice® can be placed within a plant pot or underneath, in which case the water will be delivered through the holes in the base of the pot.



## Houseplant Haven™



This simple yet versatile system comprises a self-contained water supply and a HappiRoot® reservoir which will hold and maintain a variety of green and flowering pot plants for weeks. Depending on the growing season and the plant species, this can exceed three maintenance free weeks.

Our unique patented HappiRoot® reservoir provides just the right moisture and aeration to the plant and eliminates the problems of over or under-watering. When the supply of free water has been used up, HappiRoot will continue to supply moisture from its internal store of solidified water.

Houseplant Haven is adaptable to a number of styles and colours of planters/containers. Examples of bowl and cylindrical styles are illustrated.



Registered Design 4011849

## Smart Valve®

Smart Valve® is a patented sensor-transducer valve based on a unique polymer material developed after many years of scientific research. It differs from all other commercially available watering devices, in that it automatically delivers water to plants on trays or in planters, only when required by the plants. The plant's transpiration properties and the condition of the soil, determine how much water is required.

A Smart Valve® incorporated into a standard container, planter, trough, tray, etc, can increase the interval between watering and maintenance visits to months. The Smart Valve® does not need an electricity supply or costly computerised management system with interconnecting cables. Neither is there a possibility of an arbitrarily control setting either waterlogging the soil or preventing delivery of water even if the soil is dry.

It is these properties that make the Smart Valve® a practical alternative to conventional watering methods for both interior and exterior applications.

