

Coco peat or Coir Fiber Pith is derived as a byproduct in the process of fiber extraction from the Husk of the coconut. The eco-friendly material Coco peat is a 100% natural growing medium. Coco peat is dried under natural sunlight, and processed to produce various growing mechanisms. Coco peat has a highly porous material structure. Hence Coco peat can absorb large volumes of water. Generally Coco peat can absorb water about half of its volume and 5 to 6 times its weight. Coco peat has great oxygenation properties. That makes Coco peat rooting solutions highly suitable for potting mixtures.

Its high lignin percentage - 31% - makes coco peat very stable and slowly decomposing. In general it takes about 10 years to decompose. Even decomposed coir pith is used as hydroponics systems for growing roses. Coco peat has a carbon-nitrogen (C/N) ratio of 104:1. Coco peat can store and release nutrients to plants for long periods of time. pH value of Coco peat ranges between 5.2 and 6.8 which is neutral to slightly acidic.

However, for horticultural use, Coco peat products must have specific chemical and biological standards such as suitable pH-level, electrical conductivity and elemental composition. The specifications that have to be fulfilled by Coco peat are: Density <0.1, Electrical Conductivity <0.5 m S/cm, pH<5.9-6.5, Water holding capacity <8-9 times, Pore space >90%, Expandability > 6 times of the compressed volume. Clean and high-quality coir contain natural rooting hormones and anti-fungal properties.

- Coco peat products can be mixed with fertilizers and nutrients according to the specific requirements of the plants.
- The fibers in coco -peat spread in the soil helping to aerate the soil naturally without having you break your back.
- Excellent water retention properties. Coco peat needs less watering (up to 65%) as compared to the peat moss. It holds water rather than shedding it like the traditional peat moss.
- The rapid re-wet ability and quick draining characteristic of Coco peat also reduces the loss of nutrients through leaching.
- The pH content of Coco peat is neutral to slightly acidic, and is therefore very beneficial for plants
- The coconut peat is a better natural soil conditioner; it prevents the hardening of potting soil and increases soil porosity.



- The coconut peat is resistant to bacterial, weed, fungal growth, and is truly pathogen free.
- Naturally high lignin content promotes the development of favorable micro-organisms.
- Coco peat can be used as a soil less growth medium for hydroponics.
- It is good both for indoor and outdoor use. Coco peat is entirely organic. There are no harmful effects on the environment when disposed of. Coco peat is reusable and recyclable for up to four years.
- Coco peat is physically stable and is very slow to disintegrate. It only begins to break down when it is 10 years old.



Where Coco peat products are being used.

Coco peat is now used as a medium for seedling nurseries, for bedding plants, for potting mix supplies, for landscaping, and for the hydroponic production of flowers, vegetables, trees, shrubs, compost bins, container gardening, casing layer for mushroom. Currently Coco peat stands out as the eco-friendly and more reliable replacement for the sphagnum peat moss, rock wool and sawdust. Coco peat-based products provide an excellent growing and rooting medium for hydroponics or container-based plant growing. Green house irrigation can be done after administering coco-peat to soil.

Scope

- Standard Potting Soil Mixtures / Blending.
- Golf greens & Turf Dressing
- Gardening & Landscaping
- Worm Compost
- Mushroom Growing

Coco peat is also used in various fields such as:

Green houses
Hydroponic Growers
Nursery & Garden center professionals
Seedling Nurseries
Lawn and Golf course constructors
Horticulture and Floriculture applications
Home Gardening (indoor and outdoor) and for landscaping use
Terrace Gardens



Preparation Instructions

Coco peat or Coir Pith products are easy to use.

Place a Coco peat briquette in a container, add 4 quarts of warm water and let it sit until the water is absorbed. Fluff it up and you are ready to use the Coco peat based growing solution!

Or like this

Directions:

§ Pour 4.5 liter of warm water into a 10 liter bucket

§ Place the bricks in the water and keep it expand. Crush the bricks when it is just soft enough.

