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Internationale Geotextil GmbH

Since 1913
Experience and know-how: Made in Germany!

The International Geotextile GmbH is not only a supplier of natural additives for soil improvement but is also playing a leading role in the production of various products for erosion control and rooftop greening. As a reliable partner in all matters of ecologically sustainable erosion control, we offer our customers qualified advice and support in all project phases: form the initial concept through detailed planning right up to realization. Part of our comprehensive product portfolio are also various gabion systems for heavy duty walls and sound and privacy shielding.

As a member of the Roess Nature Group we also profit from the expertise of our sister company, A.H. Meyer Maschinenfabrik GmbH. Through permanent advancement of the innovative production machines we are also able to constantly optimize the manufacturing processes and products.

The Roess Nature Group with its over 100 years' experience in machine and plant engineering is also a very innovative producer of subsurface irrigation and drainage products. In particular, the multi-award winning Dripitex irrigation mat and line have been used in large landscaping projects in the United Arab Emirates with great success.

We offer innovative solutions for successful greening in arid and semiarid areas.

The Living Desert

Successful greening in arid areas.

SYSTEM

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2015-12-10

ROESS nature group

iGGvital and iGGsub
Natural additives for soil improvement

Internationale Geotextil GmbH

Sandy soils, especially in arid areas, are low in nutrients, have a limited nutrient storage capacity and low water retention abilities, as well as a poor soil condition. The plant roots don`t have enough time to make efficient use of the irrigation water and fertilizers because they are washed out too quickly. In order to establish successful long-term garden and landscaping on such soils in combination with an artificial irrigation, it is necessary to perform an optimization through the application of suitable soil improvement measures prior to the start of the cultivation. A particularly supportive measure for this is the introduction of biomass (microbial and plant-based), bio charcoal fibres, water retention material or peat moss substitute.

Depending on the various plant categories the iGGvital and iGGsub natural additives (4 % - 8 %) will be added in different blends to local sweet sand and locally available compost.

Use iGGvital and iGGsub natural additives in the soil mix of your next gardening and landscaping project to save on fertilizer and water.

iGGvital SC

SOIL CONDITIONER

Strong Root-Growth

iGGvital SC is an organic slow-release fertilizer with a soil-enhancing effect. It consists of dried and granulated biomass of micro-organisms which live within the soil, for example, the soil fungus Penicillium Chrysogenum. After application and re-watering, iGGvital SC will act as a slow-releasing source of nutrients.
Due to its biological nature (dead biomass of soil fungi and other micro-organisms which live in the soil) iGGvital SC has a balanced nutrient composition and is perfectly adapted to the microbial degradation processes within the soil. iGGvital SC also contains an inherently high degree of important trace elements and vitamins.

iGGvital CG

CLAY GRANULATE

High Water-Retention

iGGvital CG is a clay granulate which supports cohesiveness of the soil, as it is bonding other soil particles (e.g. clay-humus complexes) with each other. With a higher proportion of clay the water holding capacity of the soil increases. iGGvital CG is also a valuable nutrient carrier (potassium, magnesium, sodium, etc.) and able to store nutrients and prevent them from leaching. The particles hold the water and release it as needed to the plant, thereby reducing the need for irrigation.

iGGsub BCF

BIO CHARCOAL FIBER

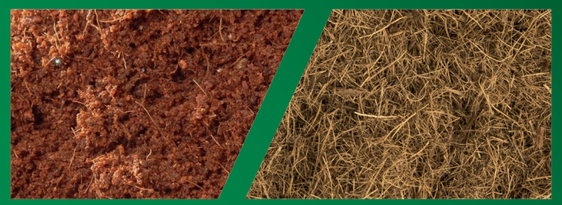
Soil-Structure Improvement

iGGsub BCF is a bio charcoal fibre. The colour is dark brown and it is an additive for the blend of sustainable cultivation of plant and tree substrates. Its chemical properties can be classified as similar to that of peat, with a low disposable nutrient content. The pH value is slightly in the acidic range. The percentage of organic matter is between 87 - 95% in the dry mass. The C/N ratio, which lies between 120 - 200:1, is relatively high, but there is no N immobilization, as C sources are hardly available on a microbial level. iGGsub BCF is completely free of plant components (no weeds) and it does not contain any foreign matter.

iGGsub CF

PEAT AND COIR FIBER PEAT

Sustainable Peat Alternative



iGGsub CF as a renewable organic raw material made out of the coconut-husk is used as an alternative of peat in many landscape projects. In many countries peat areas are protected by law and despite the increasing demand the peat production is shrinking.
iGGsub CF is used successfully as an additive for sandy soil substrates in order to get sufficient organic matter.
With its high air retention capacity even when saturated iGGsub CF is excellent for root development.