

ORGANIC BIOSTIMULANTS

ORGANIC FUNGICIDES

SOIL CONDITIONERS

BIOLOGICAL INSECTICIDES

BRINGING GROWTH IN AGRI



SEED2HARVEST

BRINGING GROWTH IN AGRI



We offer affordable, innovative, and sustainable farming solutions and products, designed to increase yields build soil fertility, reduce costs, and improve crop quality for farmers.























BRINGING GROWTH IN AGR		
PRODUCTS	BENEFITS	HOW IT WORKS
SIDE OF STATE OF STAT	 Improves root development and soil fertility. Increases nutrient uptake and efficiency. Enhances plant growth, flowering, and fruit quality. Boosts crop yields and resilience to stress. 	 Stimulates beneficial soil microbes, enhancing soil health and structure. Delivers bioavailable NPK, micronutrients, amino acids, and peptides directly to the plant.
BATECH ¹ Representation of the second of t	 A natural, eco-friendly product Increases chlorophyll and sugar content of crop thereby improving its yield and quality Increase Brix Enhances the natural resistant mechanisms of crops 	 Contains natural plant extracts that act like plant hormones or biostimulants, triggering growth and stress tolerance responses in plants
BVIRONOC 4D	 Improves soil structure and moisture retention. Safe for the environment, beneficial insects, and humans. Promotes stronger root development and plant growth. 	 Microbes fix atmospheric nitrogen into forms plants can use, reducing fertilizer needs. Stimulates natural plant defenses, making crops more resilient to stress and infection.
Sylronce Sil	 Accelerates the breakdown of organic matter in soil and compost. Supports sustainable farming by reducing reliance on chemical fertilizers. Increases moisture retention and aeration in the soil. 	 Helps recycle nutrients from post- harvest residues, reducing waste and preparing soil for the next planting. Enhances soil structure vy increasing organic matter content and microbial biomass,
MRBON CONTROL OF THE PARTY OF T	 Supplies essential minerals and trace elements to enrich soil fertility. Improves soil structure, increasing aeration and water retention. Enhances nutrient holding capacity, reducing nutrient loss through leaching. 	 Biochar's porous structure provides shelter and habitat for beneficial microbes and soil organisms. Rock dust slowly releases minerals that are vital for plant nutrition and microbial metabolism.



SEED 2 HARVEST BRINGING GROWTH IN AGRE

BRINGING GROWTH IN AGRI					
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BIO-TRICHO COMPANIENTE DE LA COMPANIENTE DEL COMPANIENTE DE LA CO	 Promotes root development and improves nutrient uptake. Reduces dependence on chemical fungicides. Improves plant resilience to environmental stress and disease pressure. 	 Trichoderma colonizes the root zone, forming a protective barrier around roots. Competes with harmful fungi for space and nutrients, effectively starving and displacing them. 			
BIO-TOD "Market and	 Naturally controls harmful nematodes that damage crop roots Reduces crop losses caused by nematode infestations. Non-toxic to humans and animals. Enhances soil biological activity and fertility. 	 Microbes colonize the soil and roots, creating an environment hostile to nematodes. Helps restore healthy soil microbial balance, reducing nematode damage over time. 			
BIO-INSER	 Reduces reliance on chemical pesticides Enhances soil microbial activity and resilience Fast-acting pest control Long-lasting effect 	 Bio-Insek contains natural fungi spores that stick to insect skins. Fungus multiplies inside the insect, weakening and killing it in 4–10 days 			
SIONER SI	 Enhances plant health and boosts resistance to stress and diseases. Helps prevent fungal diseases like powdery mildew and black spot. Biodegradable and leaves no harmful residues on crops. 	 Acts as an insect repellent and feeding deterrent. Inhibits fungal spore germination and growth on plant surfaces. Breaks down quickly in sunlight, minimizing environmental impact. 			
EXTERNINA ATOL	 Breaks down quickly under UV light; residues do not persist Targeted pest control Broad-spectrum, contact insecticide derived from pyrethrins 	 It penetrates the spiracles, damaging cell membranes in the cuticle and leading to death. The formulation is designed to allow partial insect recovery from narcosis, encouraging them to leave hiding places. 			





WHAT IS IBATECH®

iBATECH® is a patented bio-stimulant technology, organic and natural, containing a combination of several flavonoids that display antimicrobial properties as well as can increase the polyphenolic and sugar content of plants, thereby improving overall plant health and yield. **iBATECH**® improves the uptake of nutrients in the crops.

NUTRIENT CONTENT (mg/kgj) OF THE NATURAL EXTRACT

%N	р	K	s	Ca	Mg	Zn	Cu	Mu	Fe	В	Mn
0.12	110.0	1138	108.6	6.97	5.92	3.20	1.92	0.06	2.97	4.65	1.88





IBATECH® SCIENTIFICALLY PROVEN BENEFITS

- A natural, eco-friendly product
- Increases chlorophyll and sugar content of crop thereby improving its yield and quality
- Increases polyphenolic content of crops thereby improving crop health
- Enhances the **natural resistant mechanisms** of the crop
- Cost-effective –1,5L 2L iBATECH® per hectare (1 single application)
- Increase ^oBrix
- Increase antioxidant flavonoids
- Disease control effects
- Suitable to mix with fungicides
- Reduce surface tension of water
- Increased photosynthesis
- Improve uptake of nutrients
- Improved root growth
- Nutritional and yield quality enhancement
- Abiotic and biotic stress tolerance





DOSAGE AND APPLICATION

DIRECTIONS FOR USE

Home and garden

Dilute 10ml to 1L water foliar spray on crops and lawns

Small, medium and large farm operations

Dilute 1.5L -2L with 200L water per hectare (1 single application)

APPLICATION AND USES

Flowers, vegetables and Orchards

Spray every 1 – 2 weeks in the morning or evening as a fine mist

Houseplants

Spray lightly every 1 -2 weeks

Lawns and Pastures

Spray every 2 -4 weeks in the morning or evening as a foliar feed





Control of Powdery mildew and Phytophthora in tunnel tomatoes









IBATECH®

A Natural Biostimulant

DualexTM readings collected for seedling fertigation treatments with iBATECH® and algicide after a report of root development and growth medium problems

iBATECH® + Algicide applied via fertigation system on 10 July 2015. The Flavonoid (Flav) readings increased, while the Chlorophyll (Chl) and Nitrogen (NBI®) readings decrease after the iBATECH® & Algicide application. On 22 July general seedling and root growth improvements were observed, associated with improved Chl, Flav and NBI® DualexTM readings

Turnips/ seed leav	ves .	Chl	Flav	Anth	NBI
11-Jul-15	Av	18,02	0,90		21,13
Turnips / first leav	<i>r</i> es	Chl	Flav	Anth	NBI
11-Jul-15	Av	21,21	1,27		17,05
Turnips – leaves		Chl	Flav	Anth	NBI
22-Jul-15	Av	31.07	1.35		23.46

Increased root development with iBatech®









Do you know what chlorophyll can do for you?

DualexTM readings (2/12/2015) on plum leaves in Grabouw demonstration trial after 3rd application

Treatment	iBATECH Rate / 100 L	Chl	Flav	Anth	NBI®
Sprayed with iBATECH®	1 L	46,39	1,81	0,0	25,98
Not sprayed with iBATECH®	0	43,38	1,83	0,0	23,96
Increase		7%			8%

A fruit farmer in Grabouw area reported old plum trees with fruit yield losses. I told the farmer that the iBATECH biostimulant can increase chlorophyll. Farmer was not impressed, responding "I don't need beautiful green trees". Farmer observed visual increase of tree vigour, fruit quality and yield. Dualex readings showed increase chlorophyll and nitrogen uptake. (Chlorophyll (Chl), Flavonoids (Flav), Anthocyanin (Anth), Nitrogen-Based Index (NBI*)







Department Correction Service Pollsmoor Prison Vegetable Farm, Tokai

PROBLEM

Purple leaves and stunted growth in the cabbage transplants are an indication of increased Anthocyanin (Anth) compounds in the leaves due to cold stress.

RESULTS AFTER APPLYING IBATECH®

iBATECH® applications improved the nitrogen uptake (NBI®), increased Chlorophyll (Chl) levels, and reduced the Anth levels.



Cabbage with purple leaves - 19/10/2015





Cabbage leaves on 22/10/2015

HYDROPONIC SPROUTS AND MICROGREENS TRIALS AND TESTIMONIES

LOCATION

Namibian farmer, Rehoboth

PROBLEM

He experienced germination and growth problems with hydroponic barley sprouts, for livestock feed

RESULTS AFTER APPLYING IBATECH

iBATECH® application improved the germination and growth of the barley sprouts.

Barley fodder production for livestock feed, a major feed solution in drought stricken areas.







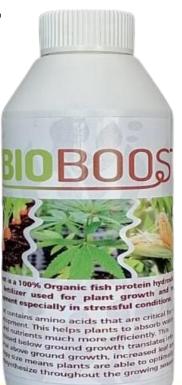




WHAT IS BIOBOOST

BioBoost is a 100% Organic liquid fertilizer used for plant growth and root development especially in stressful conditions. BioBoost contains more than 60 Minerals and 18 Amino Acids and is 100% absorbable, and does not leach from soil and addresses almost every problem caused by chemical fertilisers, herbicides, pesticides and fungicides.

TYPICAL PRODUCT ANALYSIS					
MACRO ELEM	ENTS	MICRO ELEMENTS			
NITROGEN (N)	24g/kg	MANGANESE (Mn)	4g/kg		
PHOSPHOROUS (P)	5g/kg	IRON (Fe)	140mg/kg		
POTASSIUM (K)	3g/kg	COPPER (Cu)	3mg/kg		
CALCIUM (Ca)	4g/kg	ZINC (Zn)	20mg/kg		
MAGNESIUM (Mg)	1g/kg	BORON (B)	8mg/kg		
Ph 3.5 – 4.0	1	PARTICLE SIZE 100 -	200 MICRON		





WHY SHOULD I USE BIOBOOST?

BioBoost restores and rebuilds soil fertility by feeding microbes, which then feeds the roots, shoots and foliage of the plant.

The FOCUS has shifted from CROP PROTECTION to SOIL FERTILITY

A mineral deficiency in your body CANNOT be permanently fixed with supplements. It can only be fixed by changing your diet and balance your gut bacteria.

The same rule applies to the soil. Feed the SOILBIOTA with organic matter and NOT chemicals

WHAT VISIBLE DIFFERENCES WILL I NOTICE AFTER USING BIOBOOST

- Faster healthier growth with bigger dark green leaves
- More blossoms, more fruit
- Plants will last much longer and keep on producing blossoms and fruit
- More uniform crop
- Plants are more pest and disease resistant due to higher sugar levels
- Plants perform better in dry and wet conditions



WHY SHOULD I USE BIOBOOST?

- It is 100% organic
- Highest nutrient value per volume compared to any other organic fertilizer (more than 60 minerals and 18 amino acids)
- Highest C:N ratio of any fertilizer on the market (Ratio 7:1)
- Lowest carbon footprint of all fertilizers (even lower than making compost)
- Suitable for all types of plants from grass to shrubs to trees
- Can be applied as a soil drench or a foliar spray
- The nutrients in BioBoost are a quick and direct stimulant to the plant's roots and leaves
- 100% absorbable and does not leach from the soil
- Cost effective ... 1L dilutes to 100L of Water and covers an area of +-1500m2
- Good for the environment... the birds and the bees LOVE IT, because its NATURAL



WHAT ARE THE BENFITS OF BIOBOOST?

- Best broad spectrum nutrient provider for any type of plant from grass to shrubs to trees
- Every time you fertilize your plants, you also feed the soil-microbes.
- Build soil structure and cannot leach
- Balance the pH of the soil
- More nutrient value per volume than any other fertilizer on the market
- On top of the mineral value ... crops can benefit from 18 essential enzymes and hormones



HOW TO APPLY BIOBOOST?

- Soil drench with a watering can or through an irrigation system
- Fertigation system
- Foliar feed spraying it on the crops
- Boom sprayer

CROP TYPE

Centre pivot / Mist Blower

HOW OFTEN SHOULD I APPLY BIOBOOST AND HOW MUCH?

BioBoost can be applied every 1-4 weeks depending on the crop and soil condition.

OTY

FEEDING THE SOIL BEFORE PLANTING	10L-20L PER HECTARE	SOIL DRENCH
SMALL GRAINS	3L-5L PER HECTARE	FOLIAR SPRAY

APPLICATION METHOD

VEGETABLES 5L-9L PER HECTARE FOLIAR SPRAY VINEYARDS 5L-9L PER HECTARE FOLIAR SPRAY

ORCHARDS 6L-10L PER HECTARE FOLIAR SPRAY

SEED INNOCULATION/COATING **5ML PER KG OF SEED ALL TYPES OF SEEDS** 250ml PER 10L WATER

ROOT DIP SOAK FOR 30MIN HOME AND GARDEN 10ML PER 1 LITRE WATER FOLIAR SPRAY



FARMER TESTIMONMIAL

Farmer Laphahang – Maseru – Lesotho – December 2022



Tomatoes –10 weeks and harvesting



Cucumbers – 10 weeks and harvesting



First Harvest





Reg.No. L7052 (Act 36 of 1947)T

WHAT IS BIO-NEEM

Bio-Neem is an emulsion concentrate contact and stomach insecticide for the control of biting and stinging insect. The active ingredient in Bio-Neem (Azadirachtin) is extracted from the world-renowned Indian Neem Tree and breaks the natural reproductive cycle of over 200 common insect types including whiteflies, leafminers, mealybug, thrips, fruit flies, leafhoppers, red spider mite, weevils and many more.

MODE OF ACTION

As a Feeding Deterrent – reduces the level of the insect hormone Ecdysome the insect's molting process gets disrupted preventing the immature larvae from developing into an adult.

As an Insect Growth Regulator – Azadirachtin exhibits growth regulating properties that are most effective against the immature stages of insects.





Reg.No. L7052 (Act 36 of 1947)

APPLICATION

- Apply as a foliar spray, soil drench/growing medium application
- Spray onto all the leaves until run off and around the plant on the soil
- Repeat after 5-7 days if the Beneficial insect population is low
- · Do not apply before watering
- Only water your crops 8 hours after applying Bio-Neem
- Apply early morning or late afternoon

DIRECTIONS

- Dilute 5ml with 1l water
- Dilute 500ml with 100L water

COVERAGE

- 1L Mix will cover an area of 5m² 10m²
- 300L 500L mix will cover 1Ha depending on the insect stage of development (1.5L – 2.5L/ Hectare)

SEED 2-HARVEST
Mentales search in a size

BIO EN A concentrate contact and stomach insection
for the control of biting and stinging insect.

BOTANICAL INSECTICIDE

BOTANICAL INSECTICIDE

Bio No. 1352 (Act 35 of 1947)

Bio-Neem can be used together with Xterminator if the infestation is high.

BIO-NEEM

TARGET PESTS

AMERICAN BOLLWORM	FLAT MITES	RED SPIDER MITE
ANASTATIA BUG	FRUIT NIBBLER	RUST MITE
ANTS	GREATER CABBAGE MOTH (LARVAE)	SEED MAGGOT
APHIDS (VARIOUS SPP)	GREY MITE	SEMI-LOOPER (PLUSIA LOOPER)
APPLE WOOLY APHID	GROUND	SILVER MITE
ASTYLUS BEETLE (LARVAE)	LEAF ROLLERS	
BAGRADA BUG	LEAFHOPPER	SOFT GREEN SCALE
BLACK MAIZE BEETLE	LEAFHOPPER (JASSID)	SPINY BOLWORMS (VARIOUS SPP).
BLACK SAND MITE (RED-LEGGED EARTH MITE)	LOWVELD MITE	STAINERS (VARIOUS SPP).
BUD MITE	MEALYBUGS	SYAGRUS BEETLE
CHAFER BEETLES (VARIOUS SPP)	MILLIPEDES	THRIPS
CMR BEETLES (VARIOUS SPP).	MITE	TREE CRICKETS
CODLING MOTH	ORANGE DOG CATERPILLARS (VARIOUS SPP).	TUBER MOTH
CUTWORMS	ORIENTAL FRUIT MOTH	WEEVIL (SNOUT BEETLE)
FALSE CHINCH BUG	PSYLIA	WHITE FLY (NYMPHS)
FALSE CODLING MOTH	RED BOLWORM	

BIO-NEEM

CROPS

APPLE & PEARS	CHICORY	LUPINS	POTATOES
APRICOTS	CITRUS	MAIZE	POMEGRANATE
AVOCADOS	COFFEE	MANGOES	PRUNES
BANANAS	COTTON	NECTARINES	QUINCES
BARLEY	CRUCIFERAE	OAK TREES	RYE
BEANS	CUCURBITS	OATS	SORGHUM (GRAIN)
BERRIES	FIGS	OLIVES	STRAWBERRIES
BLUEBERRY	GINGER	ONIONS,LEEKS,CHIVES	SUGAR CANE
CASHEW NUT	GRANADILLA	PAPAYA	SUNFLOWERS
CAPSICUM	GRAPES	PECAN NUT	SWEET CORN
CARROTS	GROUND NUTS	PEACHES	TOBACO
CELERY	GUAVAS	PEAS	TOMATOES
CHERRIES	HAZELNUT	PEPPERS	WALNUTS
CHICORY	HOPS	PERSIMONS	WHEAT
CITRUS	KIWI FRUIT	PINEAPPLES	
COFFEE	LETTUCE	PLUMS	
	CRUCIFERAE-CABBAGE, C	AULIFLOWER, BROCCOLI, BRUSSEL SPF	ROUTS
	CURCURBITS-MELC	ONS, SQUASH, CUCUMBERS, PUMPKIN	
	BEANS-GREEN	BEANS, DRY BEANS, SOY BEANS	

ORNAMENTALS, FLOWERS, LAWNS

american bollworm



american leaf



Antestia bug



Aphid (Russian)



Apple wooly aphid



Astylus beetle (larvae)



Bagrada bug



Leafhopper



Leafhopper (Jassid)



Low veld mite



Mealy bugs





Orange dog caterpillars Oriental fruit moth



Black maize beetle Black sand mite







CMR beetles



Bollworm

Cutworms



Bud mite



False chinch bug

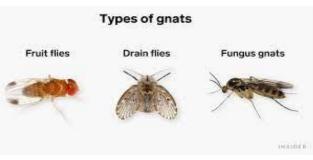


Chafer beetles





Fruit flies



Fruit nibbler



Greater cabbage moth



Grey mite



Ground weevil



Red spider mite



Semi-looper





Spiny bollworms



Stainers



Syagrus beetle



Thrips



Tree crickets



Tuber moth



Reg.No. L7037 (Act 36 of 1947)

WHAT IS EXTERMINATOR

An suspension concentrate contact and stomach insecticide for the control of biting and stinging insects on crops as listed.

MODE OF ACTION

The naval oil contains terpenes of which d-limonene dominates. (The terpenes are surfactants used in degreasers and soaps to brake down fats.) The ingredient d-limonene instantly strips away a protective wax coating from the exoskeletons of insects and by penetrating the spiracles (breathing holes) will inflict cell damage to the cell membranes of the cuticle causing death. Pyrethrum has a narcotic action on insects and the synergist PBO prolongs this to death. **Xterminator** is formulated to allow the insect to recover from narcosis in order to allow the insect to emerge from cover when the d-limonene action will inflict death. (Chinch bug application - post harvest) **Xterminator** is formulated to minimise damage to beneficial insects and by intervals in extant of 7 days many will recuperate. Do not use more than 12 times a year on same location. **Xterminator** is toxic the soil artropodes. Xterminator must not be used in hydroponic grown crops where water is treated by fish.



Reg.No. L7037 (Act 36 of 1947)

APPLICATION

- Apply as a foliar spray, soil drench/growing medium application
- Spray onto all the leaves until run off and around the plant on the soil
- Repeat after 5-7 days if the Beneficial insect population is low
- · Do not apply before watering
- Only water your crops 8 hours after applying Exterminator
- Apply early morning or late afternoon

DIRECTIONS

- Dilute 5ml with 1l water
- Dilute 500ml with 100L water

COVERAGE

- 1L Mix will cover an area of 5m² 10m²
- 300L 500L mix will cover 1Ha depending on the insect stage of development (1.5L – 2.5L/ Hectare)



Exterminator can be used together with Bio-Neem if the infestation is high.

TARGET PESTS

AMERICAN BOLLWORM	FLAT MITES	RED SPIDER MITE
ANASTATIA BUG	FRUIT NIBBLER	RUST MITE
ANTS	GREATER CABBAGE MOTH (LARVAE)	SEED MAGGOT
APHIDS (VARIOUS SPP)	GREY MITE	SEMI-LOOPER (PLUSIA LOOPER)
APPLE WOOLY APHID	GROUND	SILVER MITE
ASTYLUS BEETLE (LARVAE)	LEAF ROLLERS	
BAGRADA BUG	LEAFHOPPER	SOFT GREEN SCALE
BLACK MAIZE BEETLE	LEAFHOPPER (JASSID)	SPINY BOLWORMS (VARIOUS SPP).
BLACK SAND MITE (RED-LEGGED EARTH MITE)	LOWVELD MITE	STAINERS (VARIOUS SPP).
BUD MITE	MEALYBUGS	SYAGRUS BEETLE
CHAFER BEETLES (VARIOUS SPP)	MILLIPEDES	THRIPS
CMR BEETLES (VARIOUS SPP).	MITE	TREE CRICKETS
CODLING MOTH	ORANGE DOG CATERPILLARS (VARIOUS SPP).	TUBER MOTH
CUTWORMS	ORIENTAL FRUIT MOTH	WEEVIL (SNOUT BEETLE)
FALSE CHINCH BUG	PSYLIA	WHITE FLY (NYMPHS)
FALSE CODLING MOTH	RED BOLWORM	

CROPS

APPLE & PEARS	CHICORY	LUPINS	POTATOES
APRICOTS	CITRUS	MAIZE	POMEGRANATE
AVOCADOS	COFFEE	MANGOES	PRUNES
BANANAS	COTTON	NECTARINES	QUINCES
BARLEY	CRUCIFERAE	OAK TREES	RYE
BEANS	CUCURBITS	OATS	SORGHUM (GRAIN)
BERRIES	FIGS	OLIVES	STRAWBERRIES
BLUEBERRY	GINGER	ONIONS,LEEKS,CHIVES	SUGAR CANE
CASHEW NUT	GRANADILLA	PAPAYA	SUNFLOWERS
CAPSICUM	GRAPES	PECAN NUT	SWEET CORN
CARROTS	GROUND NUTS	PEACHES	TOBACO
CELERY	GUAVAS	PEAS	TOMATOES
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american leaf miner



Antestia bug



Aphid (Russian)



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Leafhopper



Leafhopper (Jassid)



Low veld mite



Mealy bugs





Orange dog caterpillars Oriental fruit moth



Black maize beetle Black sand mite



Chafer beetles





CMR beetles





Cutworms



Bollworm Bud mite



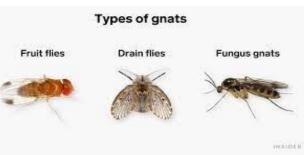
False chinch bug



Flat mites



Fruit flies



Fruit nibbler



Greater cabbage moth



Grey mite



Ground weevil



Red spider mite



Semi-looper





Spiny bollworms



Stainers



Syagrus beetle



Thrips



Tree crickets



Tuber moth





WHAT IS BIO-INSEK

Bio-Insek is a suspension concentrate biological insecticide for the control of adult insects, their larvae and pupae (not sealed coccoons) on crops listed. Spores of the fungus, when landing on insects, parasitizes the body and if present in the soil, will parasitize the larvae and even the eggs of the insects.







MODE OF ACTION

- The conidia of entomopathogenic fungi adhere to the insect cuticle by means of hydrophobic interaction between the spore wall and epicuticle lipids. The conidia germinate, and the germ tube penetrates the cuticle, using a specific series of enzymes, which in turn degrade the lipids protein and chitin in the insect cuticle. In the insect body, the fungus multiples in the haemocoel as a blastospora, or yeast –like cell, and enzymes begin to destroy the internal structures of the host insect causing morbidity within 36-72 hours.
- Reduced feeding and immobility are rapidly evident, and the insect dies within 4 to 10 days post-infection.
- The time to death will depend on the insect species, age and conidial dose. After death, the blastospores transform into mycelia, which emerge through the cuticle and form spores. These cover the cadaver as a characteristic white growth. Sporulation occurs only in conditions of high humidity.
- The fungi are natural occurring soil borne parasites on insects. Only during the pupae stage the insect cannot be attacked, but before and after. The fungi can survive on dead plant material and spores can survive for over 24 months in healthy soils with a high organic materials content.
- Both fungi are saprophytes, thus applying Bio-Insek will temporarily cause a peak in the population of Beauveria Bassiana and Metarhizium anisoplae on soils with lots of plant residues. Creating such peaks leads to a dense net of spores in the top soil, therefore increasing the chance of the spores to attach itself to the insect or its larvae. Knowing the life cycles of insects is important for the efficacy of Bio-Insek. Best efficacy can be obtained if the peak coincides with the start or end of the cycle in the soil.
- Foliar application of Bio-Insek is recommended only if infestation is very high, since beneficial insects will be attacked as well.
- Mixing Bio-Insek into good compost before spreading or spraying after compost application will reduce threat of insects living in the soil and/ or having a soil cycle.
- Bio-Neem added to the spray mixture has the advantage of giving the spore a fair chance to survive a brief dry spell shortly after application and secondly make the insect more vulnerable for spore attack.



DIRECTIONS FOR USE

- · Use only as directed
- The soil should preferably be moist before applying Bio-Insek by means of spray or through irrigation system. After application irrigate in order to drench spores into top soil. Thumb rule is to have 6 mm irrigation before and 6 -12 mm irrigation after depending on the type of soil. The lighter the soil the less water.
- Ensure good coverage (wetting) of all foliar parts, particularly under leaves. Do not irrigate by means of overhead or sprayers within 12 hours after application.
- 1 L / ha-----foliar application, to the point of runoff.
- Adding Bio- Neem at 500ml / 100 I will increase efficacy.
- 1 L / ha----soil/ growth medium application by drenching.
- Adding Bio-Neem at 5 L / ha will increase efficacy
- Mode of action must be considered for best timing.





TARGET PESTS

AMERICAN BOLLWORM	FLAT MITES	RED SPIDER MITE
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CUTWORMS	ORIENTAL FRUIT MOTH	WEEVIL (SNOUT BEETLE)
FALSE CHINCH BUG	PSYLIA	WHITE FLY (NYMPHS)
FALSE CODLING MOTH	RED BOLWORM	
	NEMATODES (VARIOUS SPP)	



Reg.No. L8466 (Act 36 of 1947)

CROPS

APPLE & PEARS	CHICORY	LUPINS	POTATOES
APRICOTS	CITRUS	MAIZE	POMEGRANATE
AVOCADOS	COFFEE	MANGOES	PRUNES
BANANAS	COTTON	NECTARINES	QUINCES
BARLEY	CRUCIFERAE	OAK TREES	RYE
BEANS	CUCURBITS	OATS	SORGHUM (GRAIN)
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CHERRIES	HAZELNUT	PEPPERS	WALNUTS
CHICORY	HOPS	PERSIMONS	WHEAT
CITRUS	KIWI FRUIT	PINEAPPLES	
COFFEE	LETTUCE	PLUMS	
	CRUCIFERAE-CABBAGE, C	AULIFLOWER, BROCCOLI, BRUSSEL SPI	ROUTS
	CURCURBITS-MELC	ONS, SQUASH, CUCUMBERS, PUMPKIN	
	BEANS-GREEN	I BEANS, DRY BEANS, SOY BEANS	
	ORNAM	ENTALS, FLOWERS, LAWNS	

INSECTS

american bollworm



american leaf miner



Antestia bug



Aphid (Russian)



Apple wooly aphid



Astylus beetle (larvae)



Bagrada bug



Leafhopper



Leafhopper (Jassid)



Low veld mite



Mealy bugs





Orange dog caterpillars Oriental fruit moth



INSECTS

Black maize beetle Black sand mite





CMR beetles



Bollworm



Bud mite



Cutworms



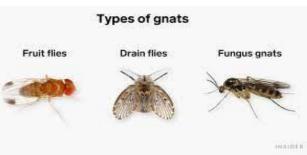
False chinch bug



Flat mites



Fruit flies



Fruit nibbler



Greater cabbage moth



INSECTS

Grey mite



Ground weevil



Red spider mite



Semi-looper





Spiny bollworms



Stainers



Syagrus beetle



Thrips



Tree crickets



Tuber moth



WHAT IS BIO-TODE

A biological nematicide for the control of nematodes

MODE OF ACTION

Paecilomyces Lilacinus is an opportunistic fungus and saprophyte, its survival not dependent on its host and growth is enhanced in the rhizosphere. Oviparasitic (containing well formed juveniles and earlier eggs), and endoparasitic to various growth stages of nematodes. Penetration of egg-shells involving both physical forces and chemical action: Paecilomyces lilacinus produces a serine protease, cell wall lytic enzymes and lipase.

Enzymes could break down eggshell by attacking the protein layer itself, proteins that cross link the chitin layer, the eggshell lipids or chitin, to enable a narrow infection peg to push through. Pressure is involved in infection. Once an egg is infected the nutrients available for the fungus stimulate proliferation of the hyphae on that egg, enabling subsequent growth to adjacent eggs. Occasionally, the fungus parasitizes egg laying females by penetration through anal or vulval opening destroying eggs before laying process.

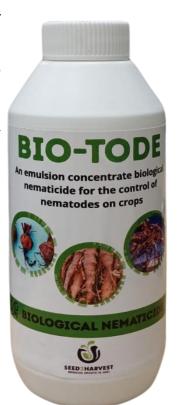


WHAT ARE NEMATODES

Soil is an excellent habitat for nematodes, and 100 cc of soil may contain several thousand of them. Because of their importance to agriculture, much more is known about plant-parasitic nematodes than about the other kinds of nematodes which are present in soil. Most kinds of soil nematodes do not parasitize plants, but are beneficial in the decomposition of organic matter. These nematodes are often referred to as free-living nematodes. Juvenile or other stages of animal and insect parasites may also be found in soil. Although some plant parasites may live within plant roots; most nematodes inhabit the thin film of moisture around soil particles.

The rhizosphere soil around small plant roots and root hairs is a particularly rich habitat for many kinds of nematodes.

There is a direct link between decreasing edaphon (soil life, soil biota) and increasing nematode threat!

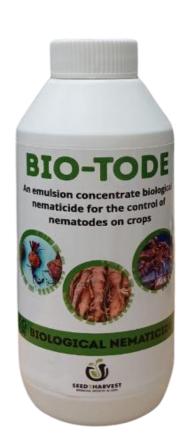


REDUCING TOTAL NUMBER OF NEMATODES

- **Bio-Tode:** Spores of the fungus *Paecelomyces lilacinus,* a saprophytic fungi growing on dead plant materials and present in healthy rhizospheres.
- **Bio-Insek:** Spores of the fungus *Beauveria bassiana*, a saprophytic fungi growing on dead plant materials.
- **Bio-Neem:** Neem oil has a history suppressing nematodes for limited periods and will increase the peak effect.

INCREASING ROOT GROWTH

- BioBoost: Keeping track of plant sap Brix is very important.
 (Measure!!!!!)
- Correct moisture content of soil is a very important factor reducing nematode challenges. (Measure!!!!!!)
- **Bio-Tricho:** Only 14 days after application of Bio-Tode and or Bio-Insek apply Bio-Tricho to limit damage (vector disease) by nematodes to roots.



APPLICATION

Bio-Tode can be applied directly into the planting furrow during planting or washed into the soil with the irrigation water (drip lines). During vegetative growth it should be applied close to the stem.

SOIL TREATMENT

• If possible, through an irrigation system, or else make sure the moisture content of the is high (ideal to apply after the rain), apply tank mixture to the soil and irrigate with at least 20mm

MIXING RATIOS

- 1L/Ha------Wet Thoroughly (The water is only the carrier so use a minimum amount of water to cover 1 Hectare)
- USE IN CONJUNCTION WITH BIO-INSEK AND BIO-NEEM

Mode of action must be considered for best timing

DOSAGE

Apply 1L each of Bio-Tode and 1L of Bio-Insek and 2 litres of Bio-Neem per hectare. Use clean water pH 6.5 – 7

PESTICIDE INFORMATION PROFILE

Active(s): Paecilomyces lilacinus strain sf

Toxicity: PAN Bad Actor Chemical: No

HEALTH RISKS HUMAN

Acute: None

Chronic: None

Carcenogenisis: No

Cholinesterate inhibitor: No

ENVIRONMENTAL IMPACT

General: Naturally occurring fungus, not infective for mammals and birds.

Bees: No

Fish: No

Groundwater: No

Minimal Risk Levels (MRLs)

Soil application with no risk to tubers and onions



WHAT IS BIO-TRICHO

Bio-Tricho is a biological fungicide consisting of philosphere micro-organisms specifically for controlling Botrytis and root diseases such as Rhizoctonia, Phytophthora, Pythium, Fusarium, etc. As microparasites, it feeds on damaging plant pathogens.

MODE OF ACTION

- The fungus Trichoderma harzianum occurs naturally in soil.
- Trichoderma harzianum characteristically overgrow pathogenic fungi and paratizes them.
- The Trichoderma harzianum will flourish in organic media and assist breaking these down.
- Trichoderma harzianum will follow root growth giving protection against various soil borne diseases.



INSTRUCTIONS

- Compatibility: Can be mixed with Copper based Fungicides at recommended dosages
- Spray onto all the leaves until run off and around the plant on the soil
- Not to be mixed with other fungicides and or sterilizers
- Do not apply before watering and NEVER USE THEE SAME TIME
 WITH BIO-INSEK. SPRAY ABOUT 10 14 DAYS APART
- Add suspension to water of the spray tank or fertigation tank while agitating tank consistently

BIOLOGICAL FUNGI

- Apply early morning or late afternoon
- Water pH 6 7
- (optional) Add 1% molasses to contents of the tank as a food source for the fungus
- You can use this in conjunction with BioBoost and iBatech



DIRECTIONS AND COVERAGE

SOIL DRENCH

- Apply as a soil drench to seedbed or seedling trays before planting
- Apply to seed as a seed treatment by mixing seed in a suspension
- Containing a compatible sticker

Mixing Ratios

SOIL TREATMENT

 If possible through an irrigation system, or else make sure the moisture content of the is high (ideal to apply after the rain), apply tank mixture to the soil and irrigate with at least 20mm

Mixing Ratios

- 1L/Ha------Wet Thoroughly (The water is only the carrier so use a minimum amount of water to cover 1 Hectare)
- Mode of action must be considered for best timing

CROPS

APPLE & PEARS	CHICORY	LUPINS	POTATOES
APRICOTS	CITRUS	MAIZE	POMEGRANATE
AVOCADOS	COFFEE	MANGOES	PRUNES
BANANAS	COTTON	NECTARINES	QUINCES
BARLEY	CRUCIFERAE	OAK TREES	RYE
BEANS	CUCURBITS	OATS	SORGHUM (GRAIN)
BERRIES	FIGS	OLIVES	STRAWBERRIES
BLUEBERRY	GINGER	ONIONS,LEEKS,CHIVES	SUGAR CANE
CASHEW NUT	GRANADILLA	PAPAYA	SUNFLOWERS
CAPSICUM	GRAPES	PECAN NUTS	SWEET CORN
CARROTS	GROUNDNUTS	PEACHES	TOBACO
CELERY	GUAVAS	PEAS	TOMATOES
CHERRIES	HAZELNUT	PEPPERS	WALNUTS
CHICORY	HOPS	PERSIMONS	WHEAT
CITRUS	KIWI FRUIT	PINEAPPLES	
COFFEE	LETTUCE	PLUMS	
	CRUCIFERAE-CABBAGE, C	: AULIFLOWER, BROCCOLI, BRUSSEL SPF	ROUTS
	CURCURBITS-MELO	ONS, SQUASH, CUCUMBERS, PUMPKIN	
	BEANS-GREEN	N BEANS, DRY BEANS, SOY BEANS	
	ORNAM	ENTALS, FLOWERS, LAWNS	

TARGETS DISEASES

Alternaria Spot	Cucumber Wilt Scab	
Black Scurf	Dead-Arm	Silver Scurf
Blossom Blight	Fusarium Dry rot	Stem canker
Boytris rot	Phythium	Stem rot
Brown rot	Phytophtora	Stinking Smut
Calyx-end rot	Pink root	Take all
Common scap	Root rot and Collar rot	White bulb rot

Seed decay, Seedling Disease, Soil Pathogens (damping off, root rot, seed decay and other seed-borne disease)

FUNGUS DISEASES

Anthracnose



Black spot



Botrytis leaf spot



Botrytis rot





Downy mildew



Early blight



Fruit spot



Late blight

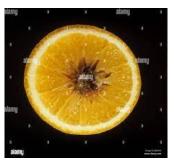


FUNGUS DISEASES

Leaf curl



Navel end rot



Powdery mildew Purple blotch





Rust



Dollar Spot Turf Disease



Brown Patch Lawn Disease







Kelp contains micro and macro nutrients and the full range of amino acids. Of the seaweeds, Ecklonia maxima has the highest concentration of plant growth stimuli which makes this plant so beneficial. The natural hormones are readily available in the fronds and are easily taken up by land plants. The growth hormones, namely auxins and cytokinin's are present.

Kelp (Ecklonia maxima) is an excellent source for building soil fertility, natural pest control and a great supplement for animals which can be added to there feeding programme

Kelp is a highly nutritious supplement that is rich in micronutrients for the support of good health in dogs, cats, horses, sheep, cattle and even poultry. With its high amounts of nutrients, minerals, and vitamins, Kelp is an essential choice when maintaining your animals health.

BENEFITS OF KELP FLAKES

Ecklonia Maxima contains micro, and macro nutrients, Nitrogen (N), Phosphorus (P) and Potassium (K) and the full range of amino acids. As well as this, natural growth hormones, auxins and cytokinins which are present, are easily taken up by land plants. Kelp Flakes are a great organic amendment to prepare your super soil.

As an application to improve soil quality, Kelp Flakes build up the humus structure of the soil and provides vitamins and micro and macro nutrients as an effective crop feed. It breaks down over time resulting in long lasting plant food for healthier soil and plants.

- Increased nutrient uptake in plants
- Stronger root and leaf growth
- Seed germination
- Higher marketable yields
- Improved soil health
- Increased microbial activity in soil
- Builds up humus
- Slow release plant food
- Provides macro and micro nutrients
- Improved disease and pest resistance
- Improved water retention





Seed2Harvest Kelp Flake Uses

Soil Enhancement:

- a. General Soil Improvement: 300kg-500kg / Ha
- b. Medium-Large Shrubs and Trees: 150g 250gram / Plant
- vegetables and Herbs: 300kg-500kg / Ha or 50gram / m2 every 4-6 weeks

Top Dressing

Evenly spread 50g of Kelp Flakes per square meter loosely around the base of the stem and water well

Transplanting

Mix 10g Kelp Flakes per litre of growing medium

Animal Feed Supplement

Apply as directed

Worm Farm Feed Supplement

Apply as directed







Seed2Harvest Kelp Flake Uses

How to make your Kelp Tea Foliar Spray

- 1. Mix 1kg Kelp flakes into 20 litre non-chlorinated / rain water and leave to brew for 14 days stirring / agitating regularly
- 2. Strain the kelp tea from the 20L can and pour over to other can and store in a cool dry place.
- 3. Dilute 30ml of Kelp Tea concentrate / litre water and foliar spray until droplets form on leaves
- 4. Remaining Kelp pieces left over in the 20L can be thrown onto your garden bed





WHAT IS HYDROCACHE

HydroCache is a fine crystal which looks similar to sugar or salt, and turns into a gel-like substance when activated in water. Water is kept in the gel, like a "mini water Reservoir" and is released to the plant, tree or grass at the root where it is needed the most

HydroCache is able to absorb up to 600 times its own weight in water, Water soluble nutrients are not washed away while irrigating as it is stored in the Hydrosorb ready to be absorbed by the plant.

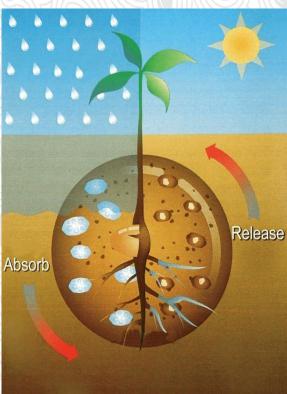






WITHOUT HYDROCACHE





WITH

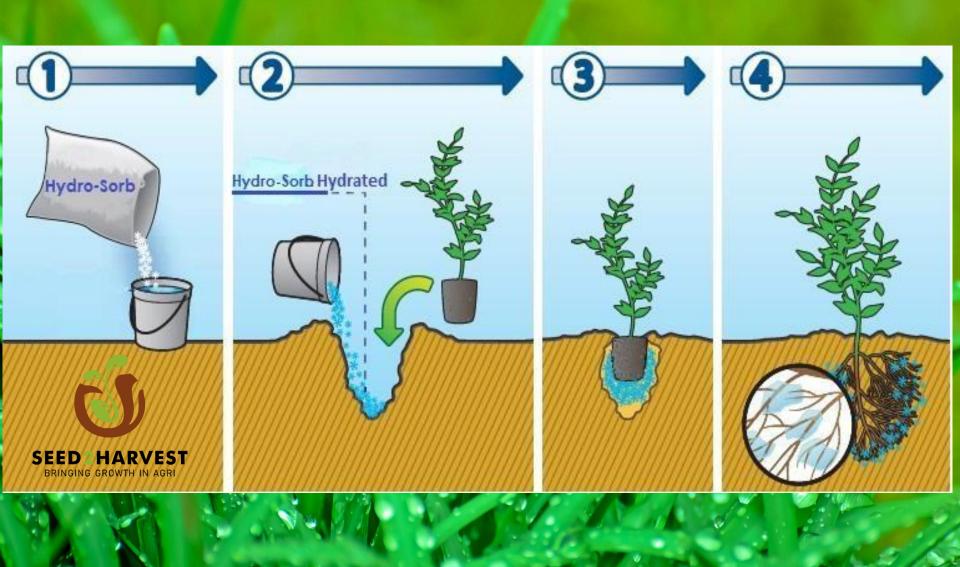


While water evaporates through the surface of the soil, gravity draws water and nutrients down into the ground past the root system, thus requiring you water more.



Soil Treated with HydroCache helps to eliminate down leaching as well as evaporation by retaining the water and nutrients around the root system, in turn stimulating plant growth and requiring less water

HOW TO ACTIVATE HYDROCACHE





BENEFITS OF HYDROCACHE

















WHERE TO USE HYDROCACHE

Grass

Golf Courses
Sports Fields
School playgrounds
Domestic Gardens

Agriculture

Subsistence farming
Plant growers
Seed germination
Cotton and Grains

Trees

Fruit and Nut Orchards
Vineyards
Forestry
Plantations

Africa as a continent struggles with water and water supply in many parts, and these semi-arid and arid areas still have to produce food and have pastures for livestock and grass areas for recreation.



CNRON



CVSSON

- Carbon+ is produced by burning organic matter under low-oxygen conditions blended with natural pulverized Ultramafic rock dust for enhanced weathering Soil amendment:
- Carbon+ can significantly increase soil organic carbon levels
- Improve soil fertility.
- Carbon+ has a high surface area and is highly porous and can help to retain water and nutrients in the soil, making them more available to plants.
- Carbon+ can increase soil pH, reducing the need for lime application.
- Carbon+ can also increase root growth, reduce nutrient leaching, leading to higher yields.
- Carbon+ improves soil health and increase crop yields while reducing the need for synthetic fertilizers and other inputs.

CVSSON

- Rich in essential minerals like calcium, magnesium, and potassium.
- Carbon sequestration: Can help capture carbon dioxide from the atmosphere and store it in the soil.
- Disease prevention: Help prevent plant diseases by improving soil health and promoting the growth of beneficial microorganisms.
- Improved water retention especially beneficial in dry sandy soil with low ph.
- Green Space Maintenance: For your lawns and landscaping, helps maintain healthy turf by improving soil fertility and reducing the need for synthetic fertilizers and pesticides.
- It can also help **prevent soil compaction**, which can be a common problem on golf courses.

CARBON

APPLICATION METHOD:

- Carbon+ can be distributed by hand or can be mixed with granular fertilizer and spread, using a fertilizer spreader.
- Suitable for pot plants, Patio gardens, vegetable and herb gardens, Golf courses, Turf and sports fields.

APPLICATION RATE

- Carbon+ can be used to replace your fertilizer use by 10% so we recommend that u use a minimum of 10kg -25kg per hectare.
- ○10g/m2 on small gardens

Grass

Golf Courses
Sports Fields
School playgrounds
Domestic Gardens

Agriculture

Farming
Plant growers
Seedling Mixes
Cotton and Grains

Trees

Fruit and Nut Orchards
Vineyards
Forestry
Plantations







Soil Feeding the Plant

Plant Feeding the Soil

NITROGEN FIXATION

Several microbes are able to convert freely available atmospheric nitrogen into a plant available form.

NITROGEN MINERALIZATION

Several microbes are able to convert soil born nitrogen into plant available form. Mining the N currently unavailable within the soil.

PHOSPHORUS SOLUBILIZATION

Several microbes have the ability to solubilize otherwise insoluble phosphorus and make it available to the plants.



SURFACTANT PROPERTIES

Several microbes are able to reduce surface tension to free up more organic and inorganic nutrients.

PLANT GROWTH PROMOTION

Several microbes have the ability to release hormones or hormone-like products that stimulate growth and other developmental activities.

MICRONUTRIENT AVAILABILITY

Several microbes have the ability to enhance micronutrient availability including siderophore production to help attract iron to the plant.

DEGRADATION CAPABILITIES

Several microbes have the ability to degrade: cellulose, lignin, chitin, starch and other compounds present in the soil improving soil health.

ENVIRONOC®401/501 MICORBIAL TEAM TECHNOLOGY

ENVIRONOC 401 and 501 are proprietary blends of naturally occurring beneficial microorganisms (non-GMO) which are nonpathogenic with proven plant growth promoting capabilities.

PLANT GROWTH

SOIL HEALTH

Microbial Surfactant Production:

Improves soil quality, waterretention and nutrient-holding capacity

Degradation Of Complex Organic Polymers: Cellulose, Lignin, Chitin, Starch, Waxes & Oils Petroleum Hydrocarbon Bioremediation: Oil, Diesel, Gas, Chemical carrier degradation

Pesticide & Herbicide

Bioremediation: Specialized remediation capabilities

NUTRIENT EFFICIENCY

Phosphate Solubilizing Microbes: FREES

unavailable P for plant uptake

Ammonifying Microbes: Converts organic N to

ammonia for plant uptake

Potassium Solubilizing Microbes: Convert insoluble K into soluble plant available form

Diazotrophic Microbes: Nitrogen fixation, converts

atmospheric N into ammonia

Nodulation: Nodule forming Nitrogen fixing rhizobia Siderophore Production: Iron-chelating compounds

which increase plant available Iron

Sulfur Oxidizing: Convert insoluble sulfur into plant

available form

Zinc Solubilization: Solubilizes insoluble forms of

Zinc for plant uptake

STRESS MITIGATION

Ethylene Reduction: ACC

Deaminase production, inhibiting Ethylene formation, promoting plant tolerance to stress

Vitamin / Hormone: Vitamin production and other compounds which promote plant health and

vigor

Volatile Compounds: Production of VOCs which promote systematic resistance to stress and plant vigor





ORGANIC GARDEN STARTER KIT





KEY BENEFITS:

- Innovative and low cost solution
- Health benefits
- Food security
- Easy to use
- Perfect for container gardening
- Friendly to environment

WHAT YOU GET:

- · Step-by-step growing guide
- · Vegetable and herb seed varieties
- · Organic plant booster powder
- · Soil water saving crystals
- Measuring cup, trigger sprayer, mutton cloth
- · Organic fertilizer
- · Kelp Flakes

3 Months of

- · Organic insecticide
- Botanical insecticide
- Organic plant stimulant
- · Organic fungicide

ORGANIC GARDEN BOOSTER PACK

Give your garden a boost, especially food gardens plagued by insects and diseases due to low immune systems and erratic weather patterns.





The **Organic Garden Booster Pack** enables the food gardener to treat and feed their existing vegetable and herb garden the way

nature intended

MITHRA

Seed 2 Harvest is addressing the pressing issues of modern agriculture in a simple and effective way -water shortage, extreme weather conditions, overuse of chemicals, soil health and degradation



Mithra prevents the ground next to the plant from over-heating during the day. Irrigation water and rain water is channelled directly to the plant. The weeds don't grow around the plant, reducing the maintenance and keeping the water for the harvest.

NATURE AND MITHRA SYNERGIES

Mithras part	Nature Part	Agronomic Function
Saving water	Rain, Dew, Gravity	M-shaped Mitra surface creates a large catchment area and funnels rain, dew, or drip-irrigation water straight into the root zone
Saving water	Evaporation, Condensation	Moisture rising from the soil condenses under the surface, reducing loss by evaporation, and returning water to the root zone
Moderating effects of cold, frost & heatwaves	Insulation	The area around the plant is covered and protected, helping temper extreme weather conditions.
Promoting Plant Growth	Photosynthesis, Light Reflection	The Mitra's special surface reflects sunlight towards the shaded side of plants, encouraging/speeding up growth. This effect also helps keep harmful insects away.

NATURE AND MITHRA SYNERGIES

Mithra part	Nature Part	Agronomic Function
No weeds No Herbicides Saving on Labour	Effects of Light/Dark Colour	Engineered layers block sunlight/photosynthesis around the plant base, preventing weeds from growing and competing over resources. The result is a reduced need of toxic glyphosate and other herbicides
Preventing Soil Degradation	Synergy between Water and Soil	Eliminating herbicides and reducing fertilizer use preserves soil quality, fostering an ideal environment for micro biodiversity.
Soil Aeration and soil productivity	Evaporation, Condensation	Free water flow, evaporation and condensation allow for a better aired atmosphere
Preventing Soil Salinization	Permeation	Surface design minimizes damaging build-up of salt in the soil, typical of traditional irrigation.

MITHRA BENEFITS

The size of the Mithra Tray currently in production is 72x55cm, and is relevant foe all young tree including all citrus trees, grapes, avocado, olive and more.

THE BENEFITS

- Cost Saving.
- Water Saving on average 50% less is needed.
- Up to 30% saving in fertilizer consumption.
- Reduced labour cost as the product does not allow sun light to penetrate through the covering.
- Kills off germination weed.
- Dramatically higher crop yield.
- Significantly improve yield.
- Prevent crop loss to extreme weather conditions.
- Water Efficiency.
- Replaces use of harmful plastic mulch.
- Trays are 100% recyclable.















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