

TRICHOTECH® WP is a biological solution for control of soil pathogenic fungi and a boost to crop development.

TRICHOTECH® WP contains spores of *Trichoderma asperellum* a soil dwelling fungi that is beneficial to plants. The fungus is antagonistic to soil pathogenic fungi; and has been used globally for control of soil borne fungal diseases caused by *Fusarium spp.*, *Pythium spp.* and *Rhizoctonia spp.* In addition, the strain is known to increase plant vigour.

Product specification

TRICHOTECH® WP contains *Trichoderma asperellum* strain H22 at a concentration of 4.0×10^9 CFU per gram in an inert carrier.

Mode of action

TRICHOTECH® WP grows and establishes around the root zone and controls soil borne pathogens through various mechanisms:

- **Competition:** **TRICHOTECH® WP** is a fast growing fungus that easily out-competes soil pathogens, promoting niche exclusion of potential harmful microbes, and providing a barrier to combat disease causing fungi.
- **Antibiosis:** **TRICHOTECH® WP** produces chemical metabolites, which inhibit various developmental stages of plant disease causing fungi.
- **Mycoparasitism:** **TRICHOTECH® WP** produces enzymes that enable the fungus to invade and parasitize plant pathogenic fungi.
- **Growth promotion:** **TRICHOTECH® WP** increases plant growth vigour by releasing locked nutrients from decaying organic matter; supplying nutrients to plant roots.



Directions for use

Owing to its mode of action, **TRICHOTECH® WP** should be applied preventively – before diseases occur in the plants. The application recommendations vary depending on target crop and method of application:

Drip application:

Apply 125 g of **TRICHOTECH® WP** per hectare. Add 125 g of **TRICHOTECH® WP** into 5 litres of water and mix thoroughly. Add the suspension into a large fertigation tank and make up the volume to 1,500 litres. Agitate the mixture throughout the application period to ensure uniform distribution of the **TRICHOTECH® WP** in the water.

Drench application:

Prepare a suspension of **TRICHOTECH® WP** at the rate of 125 g/ha in 5 litres of water and mix thoroughly. Add the mixture into a large drenching container and make up the volume of water to adequately cover the target area. Irrigate the area treated with **TRICHOTECH® WP** after application.

Dip application:

This is recommended as a pre-transplant application for rooted plantlets or cuttings. Prepare a paste of 125 g/ha **TRICHOTECH® WP** in 20 litres of water. Place rooted transplants/cuttings in a perforated crate and dip roots into the paste. Plant seedling as soon as they are dipped in **TRICHOTECH® WP**.

TRICHOTECH® WP application regime

DISEASE LEVELS	APPLICATION REGIME
Prevent/maintenance	125 g/ha monthly, or as needed.
Low	125 g/ha, 14 days apart; 4 applications then revert to maintenance regime.
Medium	125 g/ha, 14 days apart.
High	Augment with another product with knockdown effect then revert to 125 g/ha every 14 days.

It is important to irrigate the area before **TRICHOTECH® WP** is applied for efficient dispersal in the soil.

Benefits of TRICHOTECH® WP

- A natural antagonist of many plant pathogenic fungi that protects the plant from pathogens.
- Increases plant vigour by releasing locked nutrients hence increasing crop productivity.
- Increases resistance to abiotic stresses and improves seedling take after transplanting.
- Helps in development of roots and root hairs thus improving nutrient uptake and use.
- Imparts immune resistance to plant diseases.
- It is not harmful to the environment and users.
- Good synergy with other soil beneficial organisms.
- Fits in with the conventional irrigation/fertigation and spray application techniques and does not require special equipment.

Storage conditions and shelf life

Store **TRICHOTECH® WP** in a cool, dry place in tightly closed original pack. Do not freeze and do not allow the product to undergo thermal shock. May be stored in original un-opened container for six months at temperatures of 8 – 12°C.

Dudutech

Kingfisher Farm,
Moi South Lake Road
P. O. Box 1927 - 20117,
Naivasha, Kenya.

M +254 704 491 120
T +254 50 20 20 859
E info@dudutech.com
www.dudutech.com

