

TECHNICAL BULLETIN

Trunk Implant

For the Control of Bagworms in Oil Palms



CONTENTS

Overview

Technology

Benefits

Specifications

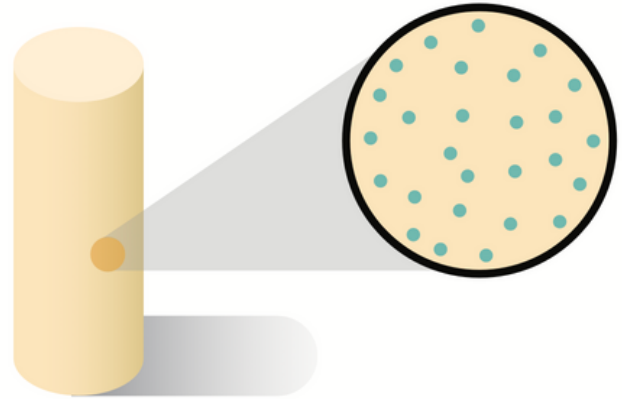
Application

OVERVIEW

Bagworms (*Metisa plana*) are a significant defoliating pest in oil palm plantations, causing extensive damage to the leaves, which can result in considerable yield losses. The pest's feeding activity weakens the palms, reducing their productivity and potentially leading to further issues if not adequately controlled.

TECHNOLOGY

The Trunk Implant system offers a targeted solution for treating bagworm infestations in oil palms. It consists of a biodegradable solid rod that encapsulates the active ingredient, acephate. The implant is designed to release the active ingredient - Acephate in a controlled, time-sensitive manner, directly into the trunk of the palm. Once inside the trunk, the active ingredient is translocated to the leaves, providing precise and effective pest control.



A graphical representation of actives encapsulated within the Trunk Implant

BENEFITS

Precise targeting:

The Trunk Implant ensures direct delivery to the affected areas, reducing off-target effects.

No pre-mixing required:

The solid rod eliminates the need for pre-mixing, simplifying the application process.

Environmentally friendly:

The biodegradable rod minimises environmental impact, with no leaching and reduced risk to non-target organisms.

Reduced application frequency:

The implant cuts down on the need for frequent applications and pest monitoring, lasting up to three months per treatment.

SPECIFICATIONS

Product size	75 mm (L) x 15 mm (D)
Weight	14 g
Form	Solid rod
Active ingredient	Acephate
Active content	57.7 % w/w
pH	7 (1 % solution)



A pack of 10 pieces of Trunk Implant rods

APPLICATION

Status of palms suitable for treatment	Matured palms with signs of bagworm infestation
Method	A hole of 15 mm diameter is drilled at 45 ° angle, 50 cm from the ground. A Trunk Implant is inserted into the hole. The hole is to be sealed with soil or putty after application
Dosage	1 rod per palm
Frequency	One application will last 3 months, reapplication will depend on the status of infestation after 3 months



Inserting a Trunk Implant into the drilled hole in the trunk



Singapore

Hydroemission Pte Ltd
16 Raffles Quay #09-01
Singapore 048581
Email: sales@hydroemission.com

Malaysia

Hydroemission (MY) Sdn Bhd
21, Jalan Persisiran Laman Setia 7, Taman Laman
Setia, 81550, Gelang Patah, Johor, Malaysia
Email: sales@hydroemission.com

