

Jose Cabrera – Agronomic Service Rep.

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FarMore Technology (FarMore Technology.url)

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FarMore – Expect More

Product Description and Performance

Vegetable Seed Treatment Platform



syngenta.

FarMore, creating a novel Seed Care technology





- ✓ The first comprehensive seed-delivered system
- An evolving seed care technology platform containing various seed protection and enhancement technologies
- Enhances performance and value of each seed





BRAND ARCHITECTURE



Three different fungicides



3 fungicides+ insecticide



3 + 2 insecticides with a crop qualifier



- Explanation of Active ingredients
 - Fungicides
 - Apron XL® mefenoxam
 - Maxim[®] 4FS fludioxonil
 - Dynasty[®] azoxystrobin
 - Insecticides
 - Cruiser® thiamethoxam
 - Regard® spinosad

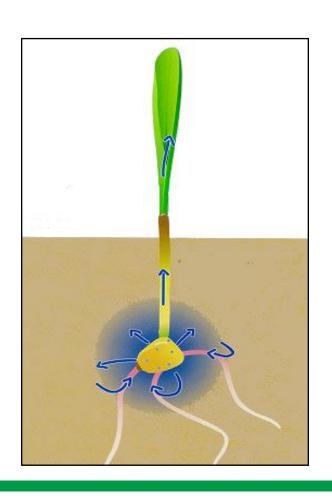


Mefenoxam (Apron) General Attributes

- Specific Oomycete control: e.g. Pythium and downy mildew
- Systemic and is absorbed by the roots and translocated to the rest of the plant.
- Works by preventing mycelial growth
- Part of the FarMore package
- Other brands include: Ridomil.

Apron

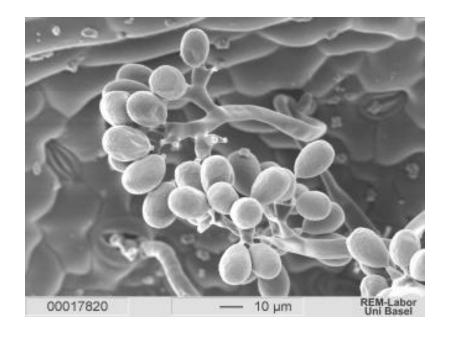
Biological Properties



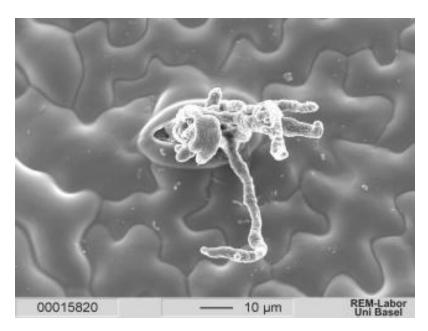
- Mefenoxam partly penetrates in the seed after application.
- It is also re-distributed in the soil around the seed during germination.
- It is then absorbed by the roots, and redistributed into the plant

Apron: Stops Spore Production
Mefenoxam stops mycelial growth and spore formation

- effectively stopping the disease from progressing.



No treatment, spore production



Mefenoxam treatment, no sporulation

Apron summary

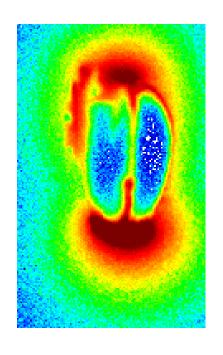
- Systemic fungicide
- Controls many pythium species and downy mildew
- Stops spore production
- One of the active ingredients in FarMore



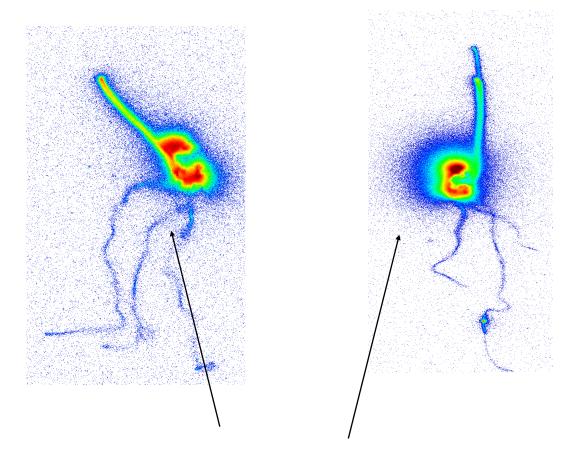
Fludioxonil (Maxim) General Attributes

- Broad spectrum: Rhizoctonia, Fusarium, Botrytis and others.
- Works by inhibiting protein kinase (PK-III) involved in the regulation of glycerol synthesis
- Persistent in Rhizosphere. Does not readily degrade and is virtually immobile in soil.
- Non-systemic
- Brands include: Cannonball, Scholar, Graduate, and Medallion.

Maxim activity protecting seed/seedling



Seed 1 day



Fludioxonil -Post emergence



Maxim summary

- Non-Systemic fungicide
- Controls Fusarium, Rhizoctonia, Botrytis
- Provides protection around the root zone
- One of the active ingredients in FarMore



Azoxystrobin (Dynasty) General Attributes

- Excellent systemic Rhizoctonia activity.
- Works by inhibiting the mitochondrial respiratory chain and ATP formation
- Azoxystrobin is absorbed into the hypocotyl offering protection of the seedling at the soil line!
- Some activity for Pythium and Phytophthora species. Not a stand alone solution but in concert with mefenoxam it is helpful.
- Brands include: Quadris, Abound, Heritage and many others!!!

Dynasty summary

- Systemic fungicide
- Provides protections against many seed and seedling diseases such as Rhizoctonia
- Mitchondrial respiration inhibitor
- One of the active ingredients in FarMore



Disease Protection From FarMore: Leafy

		F300						
	MFX	FDX	AZO	Thiram				
Pythium	+++		++	++				
Fusarium		+++		+				
Rhizoctonia		++	+++	+				
Downy Mildew	++		++					
S. sclerotium		+	++					
Verticillium			+					

+++ Strong, ++ acceptable + Weak



	F300			
	MFX	FDX	AZO	Thiram
Pythium	+++-		++	++
Fusarium		+++	+	+
Rhizoctonia		++	+++	+
Botrytis		+++		
Downy Mildew	++		++	

FarMore F300: Cabbage Under Pythium Pressure







FarMore F300

Cabbage Plants
Under *Pythium* Pressure

Insecticide Component: Thiamethoxam (Cruiser) general attributes

- Seed-applied insecticide
- Excellent compatibility with other crop protection products
- Brand names include: Cruiser, Platinum, and Actara



Cruiser Mode of Action

- Interferes with nicotinic acetylcholine receptors in the insect nervous system
- Both contact and ingestion activity
- Feeding stops within hours
- Death occurs quickly, usually within 24-48 hours

Cruiser summary

- Systemic insecticide
- Controls many sucking and chewing pests
- Rapid root uptake
- Excellent residual control
- Low use rates
- Provides protections against many sucking and chewing insect pests such as aphids and whitefly
- One of the active ingredients in FarMore



Spinosad (Regard) general attributes

- Active ingredient description:
 - Spinosad is composed of spinosyns A and D, substances produced by aerobic fermentation of the actinomycete species Saccharopolysora spinosa.
 - This rare species was found in soil samples from an island in the Caribbean in 1982.
 - Actinomycetes are filamentous bacteria found in the soil that give it a sweet 'healthy' smell.
- Brand names include: Entrust and Success

Regard

- How it works:
 - Spinosad is a fast-acting, somewhat broad-spectrum material that acts on the insect primarily through ingestion, or by direct contact
 - It activates the nervous system of the insect, causing loss of muscle control.
 - Continuous activation of motor neurons causes insects to die of exhaustion within 1-2 days.

Regard summary

- Insecticide with limited systemicity
- Active against root pests as a seed treatment
- Biological compound
- OMRI certified
- An ingredient in FarMore FI500



Bringing plant potential to life

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Root Health Informational Video (Root Health Informational Video.url)

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