



## Selecting the Right Seed Treatment Package for Your Corn Crop

### Introduction

Spring planting environments can be variable and unpredictable. Minimizing damage both above and below ground will help get the corn crop off to a promising start. Seed treatments promote seedling establishment and help reduce loss of yield potential due to fungal pathogens and insects. When choosing seed treatment options, field history is a key component in that decision-making process. Understanding what diseases and insect pests have been problematic in the past is important when deciding which seed treatment to choose to mitigate these concerns. Acceleron® Seed Applied Solutions offers an advanced portfolio of products for corn that protect against early season insects and disease.



Figure 1: Treated refuge in the bag corn seed.

### 2023 Acceleron® Seed Applied Solutions Options

#### 2023 Corn Offerings



#### FUNGICIDES

Two modes of action providing enhanced protection against soilborne and seedborne diseases, including *Fusarium*, *Rhizoctonia solani* and *Pythium*.

#### INSECTICIDES<sup>[1]</sup>

Controls over 15 corn insect pests and protects against damage from early season pests, such as wireworm, seedcorn maggot, white grub, grape colaspis and black cutworm. New 2020 standard insecticide rate of 0.50 mg a.i./seed for products containing Clothianidin.

#### NEMATICIDES<sup>[1]</sup>

##### + Poncho® Votivo® Seed Treatment

Protection against damage from a wide range of nematode species.

Refer to your 2023 seed price card for availability and pricing.

#### BIO-ENHANCERS

##### BioRise® Corn Offering<sup>[2]</sup>

Designed to increase functional root volume, as well as water and nutrient uptake through enhanced mycorrhizal colonization.



#### FUNGICIDES

Protection against soilborne and seedborne diseases, including *Fusarium*, *Rhizoctonia solani* and *Pythium*.

##### + Enhanced Disease Control Offering

Offers a 3.7 bu/A advantage on average<sup>[3]</sup> with enhanced early- to mid-season disease control due to the reduction of infections caused by *Fusarium*, *Rhizoctonia solani* and *Colletotrichum graminicola*.

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[1] Insecticide and nematocide offerings will vary by trait and class. Refer to price card, bag tag or bag flap for details. Clothianidin at the 1.25 mg/seed rate available on select products.

[2] Class of 2016 and newer base genetics are treated with BioRise® 360 ST.

[3] Results from seven years of internal trials comparing hybrids treated with and without Enhanced Disease Control. N-598.

ALWAYS READ AND FOLLOW PESTICIDE LABEL DIRECTIONS. FOR CORN, EACH ACCELERON® SEED APPLIED SOLUTIONS OFFERING is a combination of separate individually registered products containing the active ingredients: BASIC plus Poncho®/VOTIVO® Offering for corn: metalaxyl, prothioconazole, fluoxastrobin, clothianidin, Bacillus firmus I-562; ELITE plus Poncho®/VOTIVO® Offering for corn: metalaxyl, ethaboxam, clothianidin, and Bacillus firmus I-562; prothioconazole and fluoxastrobin at rates that suppress additional diseases. BASIC Offering for corn: metalaxyl, prothioconazole, fluoxastrobin, ethaboxam, and clothianidin. ELITE Offering for corn: metalaxyl, ethaboxam, and clothianidin; and prothioconazole and fluoxastrobin at rates that suppress additional diseases. BioRise® Corn Offering is the on-seed application of BioRise® 360 ST. BioRise® Corn Offering is included seamlessly across offerings on all class of 2017 and newer products. The distribution, sale, or use of an unregistered pesticide is a violation of federal and/or state law and is strictly prohibited. Not all products are approved in all states. BioRise® Corn Offering is the on-seed application of BioRise® 360 ST. Poncho®, Poncho®/Votivo® and Votivo® are trademarks of BASF Corporation. Acceleron® and BioRise® are trademarks of Bayer Group. ©2022 Bayer Group. All rights reserved.

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## High-Rate Seed Treatments

Acceleron® Seed Applied Solutions ELITE is the high-rate seed treatment available for Enhanced Disease Control from Bayer. There can be a multitude of scenarios that would contribute to a field being at significant risk for early season pests where the Acceleron® Seed Applied Solutions ELITE offering should be considered. Examples would include fields with a recent incorporation of manure, compost, or cover crop and fields that have been fallow or in pasture/meadow. Diseases such as root rots and seedling blights can often be more severe when crops are planted into these high-residue situations. Also, insect pressure on newly cultivated lands may differ from a typical cropping situation. A third scenario for corn is cool, wet weather. Weather conditions

cannot be precisely predicted at the time of planting, therefore seed treatments can offer insurance and peace of mind when conditions are conducive for seed and seedling diseases. Wet and cool soils are favorable conditions for most seedling pathogens, including Pythium spp. Cool soil conditions can also reduce seedling growth rate, providing a longer interaction time between the pathogen and the seed. For corn-on-corn acres, survival of seedling pathogens is typically higher in nonrotated fields. Similarly, no-till fields may have an increased risk of seedling diseases. Acceleron Seed Applied Solutions ELITE can help seed products with a lower seedling vigor rating get off to a better early start.

## Conclusion

The use of seed treatments has long been a widely accepted management practice. Seed treatments continue to be an important tool to get the corn crop off to a healthy, vigorous, and uniform start to help maximize the genetic potential of the corn crop. Always read and follow the label instructions.

## Sources:

12023. Acceleron Corn seed protection. The right level of protection from unpredictable threats. <https://www.cropscience.bayer.us/seedgrowth/acceleron/corn>.

Web sources verified 1/25/23.

## Legal Statement

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Performance may vary, from location to location and from year to year, as local growing, soil and weather conditions may vary. Growers should evaluate data from multiple locations and years whenever possible and should consider the impacts of these conditions on the grower's fields.

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