



SIMPAS-applied Solutions™

Frequently Asked Questions

What is prescriptive application, and why is it best practice?

Prescriptive application of crop inputs at planting delivers data-driven solutions to accommodate varying conditions across a single field to combat yield barriers and, in turn, increase profit potential.

While crop input prescriptions are somewhat new, they are developed in much the same way as variable-rate fertilizer applications. A variety of agronomic analyses, such as soil sampling, topography and nutrient removal calculations, are used to create a shapefile, which guides a unique application system to apply crop inputs in-furrow precisely and variably.

What are SIMPAS-applied Solutions?

SIMPAS-applied Solutions™ (SaS™) are proven, reliable crop inputs made available in SmartCartridge® containers for prescriptive, in-furrow applications to address unmet or under-satisfied agronomic needs.

Who provides the prescription for SIMPAS-applied Solutions?

Prescriptions for SIMPAS-applied Solutions are developed by retailers, agronomists or crop consultants. The prescription is then easily uploaded into the ISO-based display that controls the SIMPAS® application system.

What products are available through the SIMPAS system?

AZTEC® HC

AZTEC® HC corn soil insecticide provides consistent, broad-spectrum control of corn rootworm larvae as well as seed and seedling-attacking pests, including wireworm, for strong stands and maximum yields, regardless of corn hybrid selection.



COUNTER® 20G

COUNTER® 20G corn soil insecticide/nematicide controls nematodes to improve yield results through its proven, systemic control of nematodes and rootworms, reaching well beyond seed treatments to stop nematodes before they attack roots and cut yields. Available in SmartCartridge containers for the SIMPAS application system, COUNTER provides the convenience of a reliable granular formulation in a variable rate, prescriptive application.

Envita®

AMVAC® and Azotic North America collaborated to make the nitrogen-fixation product Envita® available in SmartCartridge containers as an at-plant prescriptive solution. Envita is a naturally occurring, food-grade bacteria that allows plants to fix nitrogen (N) in multiple crops, including corn and soybeans. Applied in-furrow, it quickly establishes itself within the plant and grows with it as it grows. Envita provides a constant, season-long supply of nitrogen from within the cells of the plant, exactly where and when nitrogen is needed the most to increase yield.

Force® 10G HL

Force® 10G HL corn soil insecticide provides proven, broad-spectrum control of listed corn rootworm larvae and seed- and seedling-attacking pests, with a reliable pyrethroid mode of action and the highest concentration of any Force granule.

iNvigate® Biological

iNvigate® Biological was the first liquid product made available for application using the SIMPAS system on corn and soybeans. Developed by Agrinos, now an AMVAC company, iNvigate creates a highly productive microbial community when applied to the soil, assisting in nutrient uptake, improving fertilizer efficiency and optimizing root growth.

microSync® IRON IDC

AMVAC and Verdesian® Life Sciences expanded their relationship to include MicroSync® IRON IDC micronutrient along with MicroSync ZINC micronutrient among the crop inputs available through the SIMPAS system. MicroSync IRON IDC is a granular fertilizer designed to supply increased available iron to crops, specifically with a focus on soybeans grown in areas with high pH and a history of iron deficiency chlorosis (IDC).

Ridomil Gold® GR

Ridomil Gold® GR is a granular fungicide that provides systemic control of soilborne diseases Phytophthora and Pythium in soybeans, cotton and peanuts, as well as other crops. Ridomil Gold GR also improves plant health and vigor in cotton and peanuts.

SMARTCHOICE® HC

SMARTCHOICE® HC is a dual mode of action, non-systemic, in-furrow, soil-applied insecticide to control corn rootworm larvae, wireworms, cutworms, seedcorn maggots, white grubs, grape colaspis, sugarcane beetle and symphylans in field corn, seed corn, sweet corn and popcorn.

Thimet® 20-G

Thimet® 20-G insecticide provides systemic control of a variety of early-season pests in row crops like cotton and soybeans.

ZINC Micronutrient

ZINC is an essential micronutrient for optimizing corn yield and performance. SmartCartridge technology enables optimal rate application by management zone.

Are SIMPAS-applied Solutions only AMVAC products?

While SIMPAS and SmartCartridge container technology has been developed and patented by AMVAC, the technology will be broadly licensed to additional product manufacturers.

How will SIMPAS-applied Solutions be distributed?

SIMPAS-applied Solutions are sold by licensed crop input retailers (SaS Retail Agents).

Are SIMPAS-applied Solutions products more expensive than standard inputs?

SIMPAS-applied Solutions provide the most cost-efficient way to maximize yield. Use our calculator to see the annual net value of using a SIMPAS-applied Solutions approach vs. non-prescriptive application:

<http://www.simpas.com/sascalculator>

What is the SIMPAS application system?

SIMPAS equipment is the next generation of precision, prescriptive, in-furrow application. Dispensing SIMPAS-applied Solutions from SmartCartridge containers, SIMPAS enables farmers to prescriptively apply multiple liquid and granular products simultaneously at planting. The SaS portfolio addresses unmet and under-satisfied agronomic needs across a wide variety of product categories, including insecticides, nematicides, micronutrients and biological products – allowing farmers to apply only what's prescribed, precisely where it's needed.

How does SIMPAS equipment work?

In alignment with the prescriptions developed by trusted advisors for each farmer's unique field-specific management zones, SIMPAS software controls the application rate of each SIMPAS-applied Solutions product through a patented metering system – similar to a printer's inkjet cartridge – only applying precisely what is needed, where needed.

What is SmartCartridge container technology?

Self-contained, closed delivery SmartCartridge containers use RFID-based Smart Tag™ technology to track product and rate information to continuously record the quantity of product dispensed and remaining in the container. This technology enables farmers to pay only for as-applied acres and allows them to switch containers when convenient e.g., during stops to refill fuel, seed or fertilizer) rather than running each container to empty.

Will SIMPAS work on all planters?

Planter-specific brackets are available to fit almost any brand and model of planter. The intuitive user interface is ISO-based for compatibility with capable in-cab displays.

How much does SIMPAS equipment cost?

The system price is determined by a participating Trimble® Dealer based on an individual farmer's needs.

How can a farmer evaluate the ROI of investing in SIMPAS?

By prescriptively targeting unmet agronomic needs, farmers are able to turn yield barriers into profit potential. Depending on the use case, many farmers would need to see an increase of less than a bushel of corn per acre across all solutions applied to justify a return on investing in the SIMPAS system. Check out the calculators below to evaluate the investment in SIMPAS equipment along with the specific return from SIMPAS-applied Solutions.

<https://www.simpas.com/calculator>

<https://www.simpas.com/sascalculator>

How does the SIMPAS application system affect or address sustainability?

The SIMPAS system utilizes patented hardware and an intuitive ISO-based user interface to create a closed delivery system that maximizes ROI and improves sustainability. With SIMPAS, farmers pay only for as-applied acres, so they can profitably and sustainably address pressure areas that would otherwise go untreated while not applying product in areas that do not need the treatment.

How do farmers get a quote, buy a system and coordinate the installation?

SIMPAS application systems are sold and serviced by participating Trimble Dealers. Trimble Dealers will work with farmers to provide system-specific quotes and manage the equipment's sale, installation and support.

<https://www.simpas.com/find-a-provider>



©2022 AMVAC Chemical Corporation is a wholly owned subsidiary of American Vanguard Corporation. All rights reserved. AMVAC, AZTEC, COUNTER, iNvigorate, SIMPAS, SIMPAS-applied Solutions, SaS, SmartCartridge, SMARTCHOICE, Smart Tag, Thimet and respective logos are trademarks owned by AMVAC Chemical Corporation.

Envita is a trademark of Azotic North America LTD. Force and Ridomil Gold are trademarks of a Syngenta Group Company. microSync is a trademark of Verdesian Life Sciences.

AZTEC, COUNTER, Force, SMARTCHOICE and Thimet are restricted use pesticides. Important: Always read and follow label instructions. See label for listed pests. Some products may not be registered for sale or use in all states or counties. Please check with your state agency responsible for pesticide registration to ensure registration status. All products are EPA registered.

Trimble and the Globe & Triangle logo are trademarks of Trimble Inc., registered in the United States and in other countries.