



**SIMPAS-applied Solutions™**

# Frequently Asked Questions

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

Simply put, it saves you money and improves yield. Prescriptive application of crop inputs at planting delivers data-driven solutions to accommodate varying conditions 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 insects, including wireworm, for strong stands and maximum yields regardless of corn hybrid selection.

### COUNTER® 20G

Prescription application of COUNTER 20G nematicide provides proven, cost effective control and improves yield results. COUNTER reaches well beyond seed treatments to stop nematodes before they attack roots and cut yields.

### 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 soybean.

### Force® 10G HL

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

### iNvigorate® Biological

iNvigorate® Biological was the first liquid product made available for application using the SIMPAS system on corn and soybean. Developed by Agrinos, now an AMVAC company, iNvigorate 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 designed to supply increased available iron to crops, specifically with a focus on soybean grown in areas with high pH and a history of iron deficiency chlorosis (IDC).

### MicroSync Pro® MINI

MicroSync Pro® MINI, a combination micronutrient granular formulation, improves soil fertility programs, provides a precise balance of critical nutrients and is formulated to prevent or correct deficiencies of boron, manganese, sulfur or zinc.

### Ridomil Gold® GR\*

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



### **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, peanut and soybean.

### **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 crop input retailers.

### **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 return 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, fungicides, nematicides, micronutrients, N-fixing solutions and soil health 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 the product applied 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-applied Solutions?

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 improves worker safety. With SIMPAS, farmers pay only for the product applied, 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>



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