

# COMPATIBILITY CHART

## VALENT BIOSCIENCES SOIL APPLIED PRODUCTS



	Ampli-K Soil*	BoronBoost Soil	BorCAN Soil	Calron Soil	CopCAN Soil	Copron Soil	Drip Transit	DriveKP	FlexCAN Soil	FlexForce Soil	FourGround New Formulation	K-Surge	Manron Soil	ManCAN Soil	MicroBlend Zn-Mn-Cu	Phosron Soil*	Phosron Soil + 1% Zn*	PhotoCAN Soil	PhotoGreen Soil	SloN Plus	Transit Soil	ZiCAN Soil	Zicron Soil
Ampli-K* Soil*	—	Green	Green	Red	Red	Red	Green	Green	Green	Green	Green	Green	Red	Red	Green	1:1 Green	1:1 Green	Green	Green	Green	Green	Red	Red
BoronBoost Soil	Green	—	Green	Green	Red	Red	Green	Green	Red	Red	Green	Green	Blue	Green	Green	Green	Green	Red	Red	Green	Green	Yellow	Green
BorCAN Soil	Green	Green	—	Green	Red	Red	Green	Green	Red	Red	Green	Green	Blue	Green	Red	Green	Green	Red	Red	Green	Green	Green	Blue
Calron Soil	Red	Green	Green	—	Green	Yellow	Green	Red	Green	Red	Green	Blue	Yellow	Green	Red	Red	Red	Green	Red	Green	Green	Green	Red
CopCAN Soil	Red	Red	Red	Green	—	Green	Green	Red	Green	Green	Green	Red	Green	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green
Copron Soil	Red	Red	Red	Yellow	Green	—	Green	Red	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
Drip Transit	Green	Green	Green	Green	Green	Green	—	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green
DriveKP	Green	Green	Green	Red	Red	Red	Green	—	Red	Red	Red	Green	Red	Red	Red	Green	Green	Red	Red	Green	Green	Red	Red
FlexCAN Soil	Green	Red	Red	Green	Green	Green	Green	Red	—	Green	Green	Red	Green	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green
FlexForce Soil	Green	Red	Red	Red	Green	Green	Green	Red	Green	—	Green	Red	Green	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green
FourGround	Green	Red	Red	Yellow	Green	Green	Green	Red	Green	Green	—	Red	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green	Green
K-Surge	Green	Green	Green	Blue	Red	Red	Green	Green	Red	Red	Green	—	Red	Green	Red	Green	Green	Red	Red	Green	Green	Green	Red
Manron Soil	Red	Blue	Blue	Yellow	Green	Green	Green	Red	Green	Green	Green	Red	—	Green	Green	Red	Red	Green	Green	Green	Green	Green	Green
ManCAN Soil	Red	Green	Green	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	—	Green	Red	Red	Green	Green	Green	Green	Green	Green
MicroBlend Zn-Mn-Cu	Green	Green	Red	Red	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	—	Red	Red	Green	Green	Red	Green	Green	Green
Phosron Soil*	1:1 Green	Green	Green	Red	Red	Green	Green	Green	Red	Red	Green	Green	Red	Red	Red	—	Green	Red	Red	Green	Green	Green	Green
Phosron Soil + 1% Zn*	1:1 Green	Green	Green	Red	Red	Green	Green	Green	Red	Red	Green	Green	Red	Red	Red	Green	—	Red	Red	Green	Green	Green	Green
PhotoCAN Soil	Green	Red	Red	Green	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	Green	Red	Red	—	Green	Green	Green	Green	Green
PhotoGreen Soil	Green	Red	Red	Red	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	Green	Red	Red	Green	—	Green	Green	Green	Green
SloN Plus	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Red	Green	Green	Green	Green	—	Green	Green	Green
Transit Soil	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	—	Green	Green
ZiCAN Soil	Red	Yellow	Green	Green	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	—	Green
Zicron Soil	Red	Green	Blue	Red	Green	Green	Green	Red	Green	Green	Green	Red	Green	Green	Green	Green	Green	Green	Green	Green	Green	Green	—



View Chart & Mixing Demonstrations Online

Ratio of Product  
\*unless otherwise noted



1:1

Compatible

Green

Compatible

Blue

Needs Further Dilution

Compatible

Yellow

Opaque Through 80 Mesh Screen

LEGEND

Jar Test Required

Red

Each mix done at a 1:1 ratio unless otherwise noted.

\*Ampli-K Soil, Phosron Soil, and Phosron Soil + 1% Zn were mixed at a 10:1 ratio.

This chart is representative of a worst case scenario, under other ratios or with the addition of a macro nutrient the mix could become compatible. Jar test advised.

For information about mixing orders & best practices please see next page.

# 2024 PRODUCT COMPATIBILITY GUIDELINES



FBSciences formulates products with both the crop and our customers in mind. Our products are inspired by nature and designed to be easy to use. Therefore, most FBSciences products are compatible with each other and with a wide range of other fertilizer and crop protection products. It is always wise to perform a standard jar test to double-check compatibility on a small scale before going out to the field. Additionally, tank mix compatibility is impacted by water quality.

## PLEASE FOLLOW THESE FEW SIMPLE POINTS FOR OPTIMAL COMPATIBILITY

### FBS Transit Products

Transit Soil®, Transit Foliar®, and Drip Transit® are compatible with all fertilizers and crop protection chemicals regardless of pH or calcium content. They are also compatible with all FBSciences nutrient products.

FBSciences foliar nutrient products are also compatible with most crop protection chemicals. Ensure the final tank mix pH is in the right range for the crop protection chemicals and in the right compatibility range.

### Phosphorus Products

Phosron® Foliar and all fertilizers containing phosphates or phosphites can easily be made compatible with each of our other foliar and soil products by adding a liquid solution of 40% citric acid (like FBS Harmony™ acidifier). The mixing sequence is important.

- **FOLIAR APPLIED PRODUCTS** Add water, FBS Harmony, Phosron Foliar (or other phosphate or phosphite product), then the balance of the water. Finally, add the calcium and/or metal-containing products while mixing. If the tank is not clarified, additional citric acid can be added; in most cases, the issues are resolved once the pH is between 4.5 and 5. For example, a mix of Phosron Foliar and CellMate® Foliar Plus Mo should use the following ratios: 1 part FBS Harmony, 2 parts Phosron Foliar, and 1 part CellMate Foliar Plus Mo.
- **SOIL APPLIED PRODUCTS** Add water, equal amounts of FBS Harmony and Zicron® Soil (and/or any FBSciences soil nutrient products) to the tank and add the phosphate fertilizer. The phosphate is added last to aid in mixing; if agitation is available, add the phosphate second. Finally, if required, additional citric acid can be added until the tank mix turns clear. Usually, this happens when the pH reaches about 2.

**Note:** If the ratio of phosphate fertilizer and Zicron Soil (or other FBSciences soil nutrient product) is 30:1 or greater, no liquid citric solution will likely be required.

### Fertilizers Containing Calcium

FBSciences offers a line of calcium nitrate-compatible products, including ZiCAN™ Soil, ManCAN™ Soil, BorCAN™ Soil, and several others. These products also provide enhanced and longer-term compatibility with our Calron® Soil as well as CAN-17 and CN-9. However, if you do not wish to use these, or you wish to use foliars, then use the following as a guideline to achieve a blend that can be successfully field with Zicron Soil and Zicron® Foliar (and all the other FBSciences metal-containing products) so long as the product goes out to the field the same day as it is mixed. If not, a little bit of agitation can help the tiny bit of gypsum that forms get re-suspended long enough to be applied. The mixing sequence is important.

- **FOLIAR APPLIED PRODUCTS** Add water first, then add the Zicron Foliar (and/or other FBSciences metal-containing product). Finally, add the other calcium foliar products last.
- **SOIL APPLIED PRODUCTS** Add water first, then add the Zicron Soil (and/or other FBSciences metal-containing product). Finally, add Calron Soil (or other calcium soil products) last.

### Saturated Fertilizers

Some fertilizers like potassium thiosulfate (KTS) or 10-34-0 are so saturated that there is no free water left. All FBSciences products are nearly saturated solutions. Compatibility can be greatly improved by adding water at 10% of the total mix volume to soil-applied tank mixes with FBSciences nutrient products and these saturated fertilizer solutions. FBS Humate Plus is a saturated humic acid solution and should be diluted with water prior to mixing with any other product. See compatibility charts for more details.