

Vital Hi-K®

100% water soluble fertilizer
specifically designed for
row crops and vegetables.



**Specially
balanced formula
to improve yield quality
of any harvestable crop!**

Vital Hi-K® is a water-soluble NPK formula designed to be used when potassium is required as a key element; this formulation is balanced with other nutrients to improve quality, maturity, yield and full growth of any harvestable crop. Vital Hi-K® is also highly effective on produce quality, increasing shelf life and brix value in vegetables and fruits.

Vital Hi-K® has been added with **RBT™ Root Bioenhancer Technology**—which is the combination of organic acids in precise balance with inorganic nutrients that boost root biomass development and increase nutrient uptake by an improved interaction between soil and root system.



Powered by **RBT™**
Root Bioenhancer Technology

Vital Hi-K® is a key part of **Vital Plant Nutrition Program™**



Vital Plant Nutrition Program™ is a complete plant nutrition system developed for row crops and some specialty crops, for farmers who are constantly seeking more yields and better quality of harvest through proven water-soluble nutrient technology. Our proposal is based on multi-nutrient and well-balanced formulations added with organic acids to enhance crop performance. Our program consists of a pop-up starter fertilizer and three *Hi-specialty* fertilizers, that can be applied either straight or combined, designed to fit specific needs of any crop and any farmer.



Five nutrients plus **organic acids*** in one formula

11-3-42 + 1.6S + 0.6Mg + 0A*

- ✓ Extra K promotes osmo-regulation, improves drought resistance.
- ✓ Improves diseases resistance.
- ✓ Improves seed viability in seed production.

Directions for Use

How to prepare **Vital Hi-K®** stock solution



ADD
Vital Hi-K dry WS product to water to produce a stock solution. (see Chart 1)



AGITATE
stock solution thoroughly



APPLY
at a rate of 5 to 28 gal/acre, according to crop and soil conditions. (see Chart 2)

Fill the tank with water to 91% of its capacity, then add 2.08 lb of **Vital Hi-K®** per each gallon of water added; final stock solution obtained must reach 100% of the tank capacity. Be sure to dissolve the product completely with constant agitation during the mixing process.

Mix				Stock Solution Properties			
Water	+	Vital Hi-K®	=	Volumen	Weight	Weight per Gal	Conc.* (weight/weight)
26.4 gal	+	55.11 lb	=	29.1 gal	275.5 lb	9.48 lb	20%
9.6 gal	+	20 lb	=	10.6 gal	100 lb	9.48 lb	20%
91 gal	+	189.6 lb	=	100 gal	948 lb	9.48 lb	20%
100 gal	+	208.4 lb	=	110 gal	1,042 lb	9.48 lb	20%

* Weight/weight concentration, obtained with water at a temp. of 20°C / 68°F; for water at lower temperature, reduce the stock solution concentration and increase the application rate accordingly. Some measurements were rounded to facilitate field mixing.

How much to **apply** of **Vital Hi-K®** solution

Vital Hi-K® can be applied by sidedress, topdress, or through fertigation. In accordance with concentration of solution (see Chart 1) and soil texture/organic matter content (see Chart 2), apply 5 to 28 gal of **Vital Hi-K®** per acre.

Crop	Application rate (gal/acre) according to soil texture and organic matter content.		
	Sand Low O.M.**	Clay Med O.M.**	Silt High O.M.**
Cotton	9	11	15
Soybeans	9	11	15
Corn	15	19	22
Wheat/Sorghum	5	6	7
Sunflowers	9	11	15
Vegetables	15	19	22
Greens	11	14	16
Sugar Cane	19	24	28

**Sand/Low O.M.: less than 1.5% organic matter.

**Clay/Med O.M.: from 1.5% to 2.0% organic matter.

**Silt/High O.M.: more than 2.0% organic matter.

With regard to conditions not shown on these charts, please contact your crop advisor or a Vital Fertilizers® representative.

Vital Hi-Calc™
Plant Nutrient Calculator



Vital Plant Nutrition Program™ is supported by **Vital Hi-Calc®** a simple yet powerful plant nutrient calculator that allows the farmer to determine:

- ✓ **How to prepare stock solutions**—choose volume of water, bags or concentration.
- ✓ **Create straight fertilizer solutions**—all Vital products are NPK balanced formulations with a high concentrated key nutrient.
- ✓ **Create your own nutrition programs**—combine all three lines of products to design your own formula.
- ✓ **Follow suggested nutrition programs**—direct recommendations per crop from our Crop Nutrition Specialist.
- ✓ **Set application rates**—according to stock solution concentration, and determine gallons to apply per acre and final formula obtained after combining our Vital Hi-N®, Vital Hi-P® and Vital Hi-K® products.
- ✓ **Create versatile N-rich solutions**—by combining Vital Hi-N® urea based and Vital Hi-N® nitrate based you can balance three forms of nitrogen plus extra macro and micronutrients and organic acids.



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