

Vital Hi-P®

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



**Specially
balanced formula
to fulfill your phosphate
and base fertilization needs!**

Vital Hi-P® fertilizer formula can be used in soil application before planting or transplanting or as a sidedress application, to encourage strong, healthy roots; it also multiplies and strengthens buds and bloom development. Vital Hi-P® application can ensure that nutrients are available to the crop when it needs them, from the beginning.

Vital Hi-P® 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-P® 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.



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

7-34-18 + 7.6S + 1.04Mg + 0.13Fe + 0.13Zn + 0A*

- ✓ Nutritional balance that enhances hybrid vigor.
- ✓ Extra K promotes osmo-regulation and improves drought resistance.
- ✓ Precise balance between N, P and Zn naturally induces an auxinic effect in the plant.

Directions for Use

How to prepare **Vital Hi-P®** solution



ADD

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



AGITATE

stock solution thoroughly



APPLY

at a rate of 15 to 38 gal/acre, according to crop and soil conditions. (see Chart 2)

Fill the tank with water to 88% of its capacity, then add 2.78 lb of **Vital Hi-P®** 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.

Chart 1 How to mix Vital Hi-P® @ 25% conc.*					
Mix			Final Stock Solution Properties		
Water	+	Vital Hi-P®	=	Volume	Weight
19.8 gal	+	55.11 lb	=	22.4 gal	220 lb
9 gal	+	25 lb	=	10.2 gal	100 lb
88 gal	+	245.5 lb	=	100 gal	982 lb
100 gal	+	278 lb	=	113 gal	1,112 lb
					Weight per Gal
					Conc.* (weight/weight)
					25%
					25%
					25%
					25%

* 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-P®** solution

Vital Hi-P® 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 15 to 38 gal of **Vital Hi-P®** per acre.

Chart 2 Vital Hi-P® @ 25% conc.*				Application rate (gal/acre) according to soil texture and organic matter content.
Crop	Sand Low O.M.**	Clay Med O.M.**	Silt High O.M.**	
Cotton	15	20	25	
Soybeans	15	20	25	
Corn	20	25	30	
Wheat/Sorghum	15	20	25	
Sunflowers	15	20	25	
Vegetables	20	25	30	
Greens	20	25	30	
Sugar Cane	25	32	38	

**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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