



PRORELEASE[®] FIELD FERTILIZER 20-7-20

CONTROLLED RELEASE FERTILIZER FOR FIELD CROPS

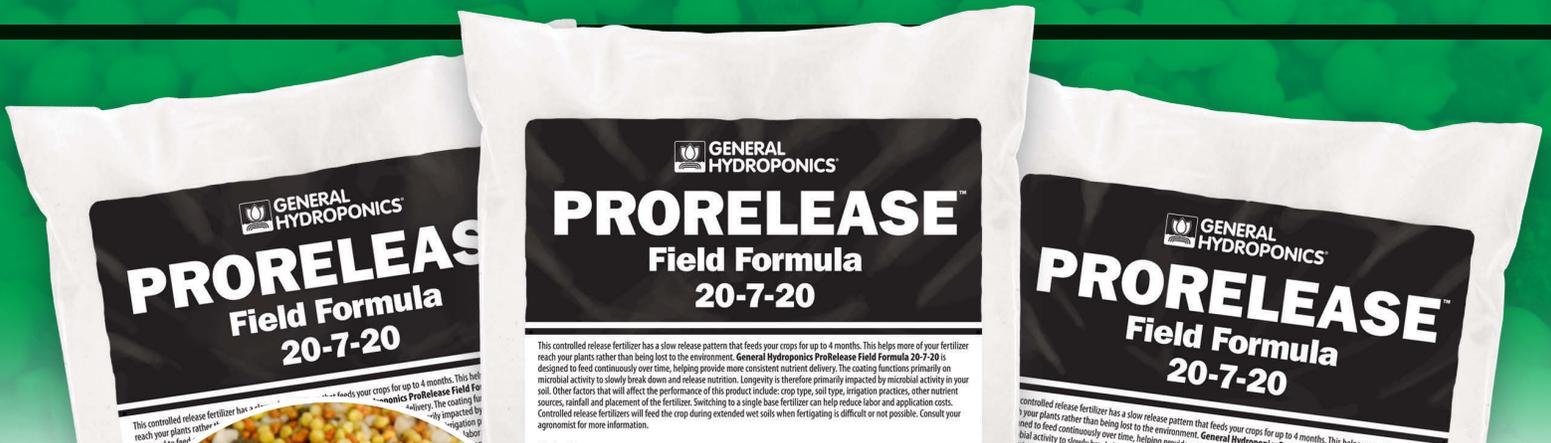
BACKGROUND

Controlled Release Fertilizers (CRF) are granulated fertilizers designed to be applied directly to the root zone of the crop. Utilizing poly-sulfur coating technologies, CRFs slowly and predictably release fertilizer over time, continuously feeding for months with only a single application! This allows for unprecedented ease of use and control for professional growers.

WHAT IT IS

General Hydroponics ProRelease Field Formula 20-7-20 is a blend of coated and uncoated granulated fertilizers designed for high-value, field-grown crops like hemp and other medicinal herbs. Apply at the start of your season and watch your crops thrive. Feeds for up to 4 months.*

** Will vary based on soil needs, planting density, temperature, climate, crop, media, irrigation or rainfall amount and especially other nutrient usages.*



The coating functions primarily on microbial activity to slowly break down and release nutrients.

(See next page for more info)

BENEFITS

The Challenge: Growing in the field can be a challenge. The weather can be unforgiving. Heavy rains can wash away many conventional types of fertilizers from your crops' root zone. This can lead to polluting runoff and a waste of time, money and profits.

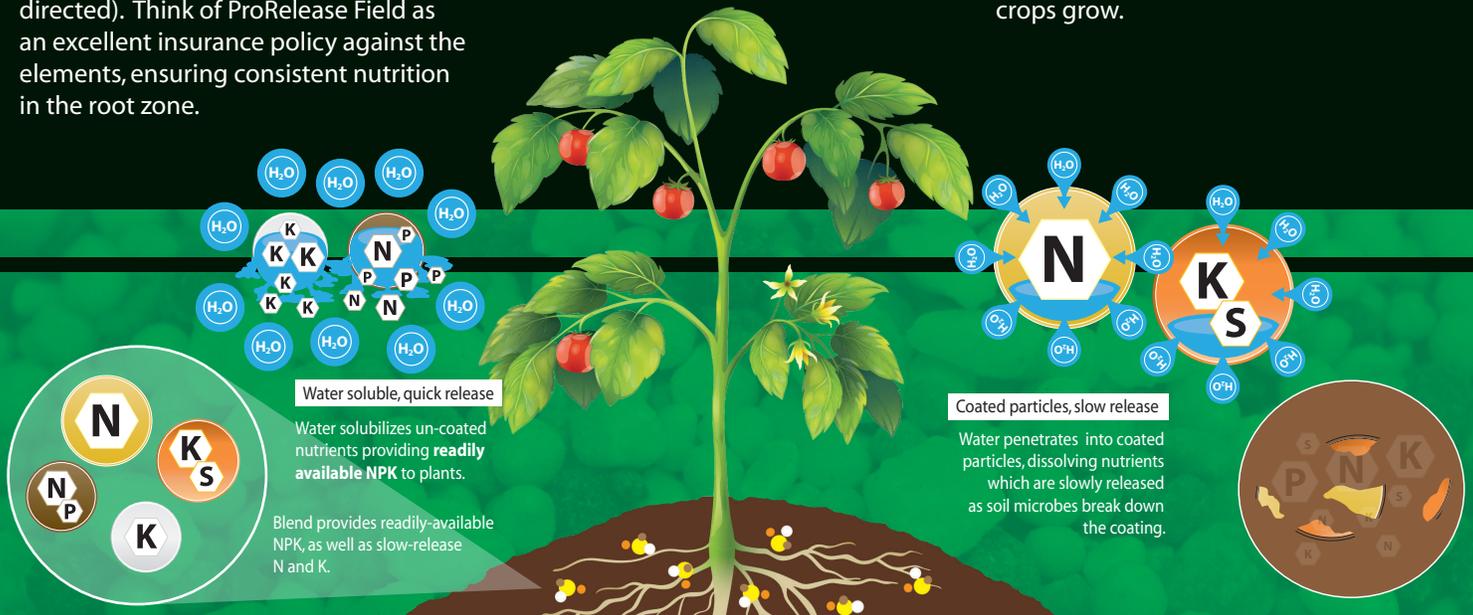
The Solution: The coated prills of ProRelease Field will not wash away under heavy rainfall and are the best option for introducing critical plant nutrients to your crop when the soil is very wet or saturated (if used as directed). Think of ProRelease Field as an excellent insurance policy against the elements, ensuring consistent nutrition in the root zone.

The Challenge: Expensive and labor-intensive methods of delivering fertilizers to your field crops can eat into profits. Growers demand an easier, simpler solution that won't affect performance.

The Solution: The use of ProRelease Field will allow prolonged feeding from a single application, reducing labor and application costs from repeated applications of water soluble or liquid products. Simply apply the fertilizer to your field, plant, and you're done.

The Challenge: Hemp cultivation is exploding in popularity. Yet little is known about hemp's nutritional needs. As a result, agronomists have limited information to base their fertility programs on.

The Solution: We base our usage recommendations on the most current university research and our own internal research. Work conducted by Hawthorne R&D has laid the foundation for the use of CRF technology. We're confident ProRelease Field's formulation and use rates are in line with how your crops grow.



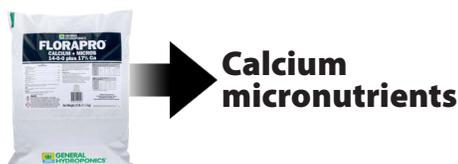
COMBINATION FERTILIZER PROGRAMS

For growers seeking the ultimate in precision crop nutrition management, we recommend using ProRelease as the backbone of your fertility program and strategically deploying General Hydroponics FloraPro or Flora Series water soluble or liquid fertilizers throughout the growing cycle to help steer your crop.

CROP STEERING DEFINITION

Our philosophy is simple: Plants need nutrients to reach their full potential. Provide your crops the nutrients they need, in the right proportions and at the right time during their developmental cycle, to maximize that potential. We call this crop steering.

LIQUID OR WATER SOLUBLE FERTILIZERS UNLOCK CROP STEERING



**Calcium
micronutrients**

FloraPro™ Calcium + Micro
Helps shore up nutrient deficiencies



**Nitrogen
Magnesium
Potassium**

FloraPro™ Grow
Helps encourage growth



**Phosphorus
Potassium
Sulphur**

FloraPro™ Bloom®
Helps optimize flower development

When used in conjunction with liquid or water soluble fertilizer programs, it is recommended to lower the application rate of each component by roughly half - 50% from ProRelease and 50% from liquid / water soluble fertilizers.



ProRelease Field Fertilizer Feedchart

Hawthorne Field 3-4 Month CRF Broadcast and Broadcast / Band per Row Rates

Pounds of N per Acre	Product Percent N	Broadcast Rate (lb Product/Acre)	lb Product (3 foot wide bed/100 feet of row)	lb Product (4 foot wide bed/100 feet of row)
10	20	50	0.34	0.46
20	20	100	0.69	0.92
30	20	150	1.03	1.38
40	20	200	1.38	1.84
50	20	250	1.72	2.30
60	20	300	2.07	2.75
70	20	350	2.41	3.21
80	20	400	2.75	3.67
90	20	450	3.10	4.13
100	20	500	3.44	4.59
110	20	550	3.79	5.05
120	20	600	4.13	5.51
130	20	650	4.48	5.97
140	20	700	4.82	6.43
150	20	750	5.17	6.89
160	20	800	5.51	7.35

** The application rates listed are intended as a guideline in developing a fertilization program. It is the responsibility of the grower to determine the appropriate rate. Your rate may be higher or lower than suggested based on your unique growing conditions. Conditions may include, but are not limited to, factors such as climate, crop, soil texture, irrigation type/amount, rainfall and residual soil nutrients. Contact a Hawthorne professional representative if you need further assistance.



HOW TO USE

For field grown hemp, we suggest evaluating rates between 110 to 130 lb N per acre for a 12 week crop planted at a density of approximately 2,000 plants/acre.*

ProRelease can be used alone or in conjunction with a liquid fertilizer or other granular fertilizers. It can be broadcast, banded in row or incorporated into the soil using either method.

For banding applications, place the band off to the side of the planted plant, preferably below the soil surface. Do not place the band immediately below a planted seed or rooted cutting. For broadcast applications, it is ideal to incorporate the product into the top 1-3 inches of soil. Spread fertilizer evenly on the surface and incorporate.

**These rates are based on published university recommendations. Rates should be adjusted based on soil needs, planting density, climate, crop, media, irrigation or rainfall amount and especially other nutrient usages.*



GH PRORELEASE FIELD FERTILIZER
SKU #HGC00005-01
Available in 50 lb (22.68 Kg) bags

We are the leading innovator in the field of hydroponics for more than 40 years. We share your passion for plants — whether you're growing hemp, vegetables, fruits, herbs or other high value crops. That's how we got our start, and that's what keeps driving us forward.

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Additional Assistance: (888) 478-6544

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