

Tech Shares

Vitalnova™ G20F Rates

Vitalnova™ G20F Rates For Horticulture Use

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Vitalnova™ G20F is a new chelated micronutrient product from ICL Specialty Fertilizer that enhances plant quality. It is designed to be sprayed on foliage a week before anticipated stress events and can be used in the greenhouse, nursery and in landscapes. Space constraints on the small, one liter bottle label for Vitalnova™ G20F limit room for detailed use instructions. This Tech Share expounds on rates concerning requirements to cover common spray application methods in ornamental greenhouses and nurseries.

As stated on the label, our target rate on many ornamental plants in the greenhouse, nursery or landscape is 13 fl. oz. per acre of surface area (which is equivalent to 0.30 fl. oz. per 1000 square feet). The tables below break this dose down to several common commercial spray application methods.

High Volume Sprays: A high volume hydraulic sprayer typically delivers 100 to 200 gallons of spray per acre (2.3 to 4.6 gallons per 1000 square feet).

100 Gallons of Spray per Acre	Spray Tank Volume (gallons)	Volume of Vitalnova™ G20F per tank	Area Treated
Hand sprayer	1	Approximately 3/4 tsp	436 sf
Backpack sprayer	4	0.52 oz (approximately 1 tbsp)	1,743 sf
Spray Rig	20	2.6. fl.oz.	8,712 sf
Spray Rig	50	6.5 fl. oz.	1/2 acre
Spray Rig	100	13 fl. oz.	1 acre

200 Gallons of Spray per Acre	Spray Tank Volume (gallons)	Volume of Vitalnova™G20F per tank	Area Treated
Hand sprayer	1	Approximately 1/3 tsp	218 sf
Back pack sprayer	4	0.26 oz (approximately 1.5 tsp)	436 sf
Spray Rig	20	1.3 fl.oz.	8,712 sf
Spray Rig	50	3.25 fl. oz.	1/4 acre
Spray Rig	100	6.5 fl. oz.	1/2 acre

Low Volume / Ultra-low Volume Sprays: A low volume sprayer, mist blower or fogger will typically deliver less than 100 gallons (down to 1 gallon of spray per acre). Determine the area your unit will spray per tankful and apply the appropriate volume of Vitalnova G20F per tank (see table for example).

Coverage Area Per Tank	Vitalnova™G20F Volume per Tank
5,000 Square Foot	1.5 Fluid Ounces
12,000 Square Foot	3.6 Fluid Ounces
30,000 Square Foot	9.0 Fluid Ounces
60,000 Square Foot	18.0 Fluid Ounces

*Note no recommendations for thermal foggers.

