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# PERK UP

## HEAT STRESS RELIEF

*Perk Up* is a blend of **Floratine Technology**, calcium, simple and complex carbohydrates, and naturally occurring compounds specifically designed to treat stress induced deficiencies on intensively managed turfgrasses.

*Perk Up* contains elements required for:

- **Respiration Stress**
- **Wilt Resistance & Recovery**
- **Root Growth**
- **Reduced Senescence**
- **Cellular Strength**

Field proven and university tested, *Perk Up* combines readily available calcium and carbohydrates with proprietary and patent-based phytochemical, antioxidant, and amino acid technology.



“The heat and humidity had my grass on death’s door. *Perk Up* brought back health and color in two hours.”

- Scott McNeer, CGCS  
Spring Creek Ranch



[www.floratine.com](http://www.floratine.com)

heat stress relief  
 $\text{CO}_2 + \text{H}_2\text{O} \rightarrow \text{CH}_2\text{O}$

## TECHNICAL INFORMATION

**Perk Up's** nutrient and organic components address deficiencies commonly present during photosynthetic-respiration stress caused by humidity, low light, and saturated soil moisture conditions.

**CALCIUM** - Essential for respiration, cellular strength, and rooting.

**AMINO ACIDS** - Specific carbon components required for translocation and pectate formation.

**ANTIOXIDANTS** - Required to neutralize free radical damage to tissue.

**CARBOHYDRATES** - Necessary for plant energy and amino acid and glycomic formation.

**ORGANIC EXTRACTS** - Key to cell division and root growth.

### NUTRIENT CONTENT

Calcium (Ca) . . . . . 8,0%  
or Calcium Oxide (CaO) . 11,2%

Net Weight: 1,372 kg/L

“Nonstructural carbohydrates in plants serve as energy reserves to be used under stressful conditions. Closely mowed turf may suffer from heat stress injury by depleting carbohydrate reserves due to the increased demand for carbohydrates (i.e., increased respiration) and decreased production of carbohydrates (i.e., decreased net photosynthesis).”

*Low-Carb Diet, by Bingru Huang, X. Liu and Q. Xu, USGA Green Section Record*

## PROFESSIONAL USE GUIDELINES

5

**COMPATIBILITY:** Calcium compounds are generally not compatible with a wide range of other products that are sprayed on turfgrasses, and tank mixing should never be attempted with any other product unless definite compatibility is predetermined by using the standard quart jar method. Do not mix with non-Floratine products that contain humic acids or acid base, carbonated, or neutral liquid fertilizers.

**METHODS OF APPLICATION:** Apply with any equipment that delivers an even mist to the turf. **Perk Up** should be applied with spray volumes of no more than 350 litres per hectare. Spray volumes over 350 litres per hectare reduce product effectiveness. Do not water in. Wait at least 3 hours to irrigate.

**DIRECTIONS OF USE:** Apply at a rate of 5 to 10 litres per hectare during the active growing season. High rate is recommended during periods of heat stress. Repeat every 10 to 14 days as necessary.



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