

# DURAPHITE™ 12

## POTASSIUM AND MANGANESE PHOSPHITE

**DURAPHITE™ 12** is a combination of potassium phosphite and manganese phosphite that is designed for use on turf, trees, shrubs, and ornamental plants.

While **DuraPhite™ 12** has long been recognized as one of highest quality phosphite fertilizers in the industry, it has also been recently featured in the Oregon State University research on alternative methods for controlling Microdochium Patch (*Microdochium nivale*).

Phosphite products are typically formulated as salts of phosphorus acid with potassium salts being the most common. **DURAPHITE™ 12** contains both potassium and manganese phosphite salts designed to provide the additional nutritional boost of manganese commonly found deficient or not plant available in many soils.



**DURAPHITE™ 12**

### GUARANTEED ANALYSIS:

Elemental Potassium (K).....	9.0%
Manganese (Mn).....	2.0%

### KEY FEATURES

**High concentration of phosphite**

**Promotes plant stress tolerance**

**Promotes healthy growth in plant roots and shoots**

## DIRECTIONS FOR USE:

### TURF:

#### *Foliar Application:*

**General turfgrass areas:** Apply DURAPHITE™ 12 at a rate of 90-160 ml/100 m<sup>2</sup> in a 4-8 L of water. Repeat application every 14 days or as needed. For best results do not irrigate or mow until area sprayed has completely dried.

**Golf course greens and tees:** Apply DURAPHITE™ 12 at the rate of 90-160 ml/100 m<sup>2</sup> in a minimum of 8 L of water. Repeat application every 14 days or as needed. For best results do not irrigate or mow until area sprayed has completely dried.

#### *Soil Application:*

DURAPHITE™ 12 can be applied to soil through various types of irrigation systems. The application rate is 5-6 liters/ hectare. If possible, inject during the last half of the irrigation cycle. Repeat application every 14 days or as needed.

### FLOWERING AND BEDDING PLANTS, NON-WOODY ORNAMENTALS:

Apply as a foliar spray using a 0.1% to 0.3% solution. Apply subsequent applications on 10 to 14 day interval or as needed to supplement nutritional requirements.

### TREES:

Apply 2-4 liters / hectare per application. Apply first application pre-bloom and subsequent applications at 21-day intervals or as needed to meet nutritional requirements

## RESEARCH:

Multiple studies at Oregon State University have shown that DURAPHITE™, when applied with elemental sulfur, effectively control the onset of Microdochium Patch through the winter months on annual bluegrass putting greens.

Furthermore, other phosphite fertilizer products in the same studies required application rates that were 2x higher than that of DURAPHITE™ to achieve similar results.

## Microdochium Patch Performance



Microdochium Patch (*microdochium nivale*) encroachment on an annual bluegrass putting green in Corvallis, Oregon