



CALCOUR DRESSING SAND

Endeavour Turf Products have listened to our valued customers and reacted to comments concerning issues resulting from mower pick up of some calcium amendments on the market. With this in mind we have been able to source a product call CALCOUR which due to its particle size is more akin to sand than a prill and consequently does not suffer from mower pick up. Due to its small particle size and increased surface area it also possesses excellent comparative release characteristics.

CALCOUR is extremely hard and composed of calcite (CaCO_3). It is formed as a result of the re-crystallization of limestone under the intense pressure and heat of geologic processes. The effect of this process is the creation of a particle with a very tight crystalline structure and small but definite porosity. The limited porosity of CALCOUR makes it less vulnerable to the leaching effects of water. Calcium carbonate, however, of which CALCOUR is composed, is highly susceptible to attack by acidic agents. CALCOUR is readily dissolved by acids, even very dilute acids, however the actual results of acidic exposure will vary with the nature of the acid. Calcite is calcium carbonate, CaCO_3 , but it frequently contains iron, or magnesium in place of the calcium.

Research

An experiment was conducted to investigate the effects of calcium source, and particle size on in-vitro solubility of seven different calcium sources namely calcium carbonate, oyster shell and CALCOUR. Calcium source and particle size significantly affected calcium solubility with CALCOUR being 99.90% soluble under slightly acidic conditions. Generally improved solubility occurs with reduced particle size for all products of intermediate calcium solubility.

CALCOUR CHEMICAL CHARACTERISTICS

Soluble residue - 0.89%

Fe₂O₃ - 0.28%; **Fe**: 0.19%

CaCO₃ - 97.74%; **Ca**: 39%

MgCO₃ - 1.22%; **Mg**: 0.35%

Phosphoric Acid - 0.04%

CALCOUR PHYSICAL CHARACTERISTICS

Particle size 100% less than 0.5mm; 84-95% less than 0.3mm

Mohs hardness 3 (Mohs scale is an ordinal scale so CALCOUR is 4.5 times harder than gypsum)

Specific gravity 2.71

RATE OF APPLICATION

ETP recommends that a soil & water analysis be carried out to best determine the exact rates of application that are required. As a general guide apply CALCOUR at rates of 2.5 - 5kg per 100m². Ideally a light but frequent approach will prove more beneficial. If using a pH acidifier such as N-acid® or a soil recovery turf spray such as Eximo® this is an ideal soil amendment to use.