

CO₂ Fixing Spray

Let's Clear Up the Mystery

CO₂ is calcium carbonate (CaCO₃) and infiltrates the leaf through the stoma. Once inside the intercellular space, it turns into CO₂ and CaO. CO₂ increases photosynthesis levels, while the calcium strengthens the cell wall. And, because the conversion occurs inside the leaf, there is no change in CO₂ levels outside the leaf. The CO₂ content of normal air is around 0.03 vol%, which isn't the optimal level for photosynthesis. In a situation where there is sufficient nutrients and water, and the temperature is favorable, the maximum level of CO₂ for optimum photosynthesis rate is 0.1 vol%. CO₂ is able to provide the carbon dioxide needed to achieve optimum photosynthesis performance. The Ca strengthens the cell wall, making it more durable in harsh conditions, especially drought. It allows the plants to keep their stomata closed and retain water. This means that the plant will survive with less water--up to 75% less Water, This is ideal in a hydroponic or indoor situation where for one reason or another, the irrigation system didn't turn on. Overall, CO₂ is a naturally occurring compound, processed to such a fine size that it permeates the foliage of plants. Within the plant it releases both calcium to improve cellular wall structure and carbon dioxide which increases photosynthesis levels. More photosynthesis activity results in larger plants with higher yields. How often should we apply? Every 2-4 weeks, during the growth period: as long as there is green, it'll help. Ideally, we recommend from vegetative period onwards.

One well known grower stated that at the end of the season his gains were dropping significantly, he applied the CO₂ and his weights increased again up into the high 20's, allowing him to achieve several fruit over 1600 lbs!