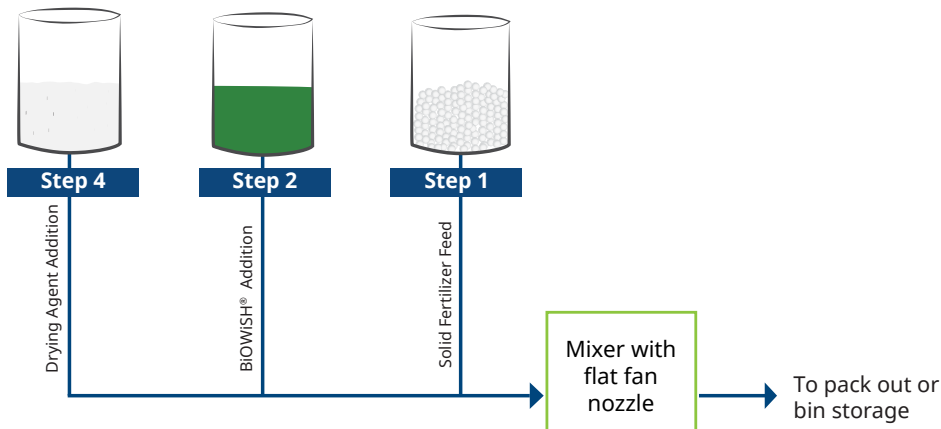


BiOWiSH® Crop Liquid Large Scale Fertilizer Coating Process

Process Design

These instructions are for the large scale (1 metric ton or more) batch process coating of BiOWiSH® Crop Liquid or BiOWiSH® Crop Liquid Green Choice onto solid fertilizer particles.

The following schematic outlines the process for a batch size of 1 metric ton (1000kg). For larger batch sizes, adjust the amounts of BiOWiSH® and drying agent accordingly. For smaller batch sizes please refer to the BiOWiSH® Crop Liquid: Pilot Scale Fertilizer Coating Technical Bulletin, available online.



1. Add solid fertilizer to the mixer.
2. Spray BiOWiSH® Crop Liquid or BiOWiSH® Crop Liquid Green Choice onto the solid fertilizer while mixer is running. The BiOWiSH® amount is equal to 0.2% of the solid fertilizer weight. For a 1000kg batch, spray-on amount would be 2L of BiOWiSH®.
3. After adding BiOWiSH® onto your fertilizer allow to mix per your normal operating specifications.
4. While continuing to mix, add an approved anti-caking (drying agent) at twice the weight of the BiOWiSH®. For a 1000kg batch, add 0.4% by weight drying agent. A drying agent may not be required. The addition of the drying agent is dependent on the fertilizer composition, handling, storage, and required shelf life.

Example Anti-caking Agents (Drying Agents)

- CaSO_4
- CaCO_3
- Bentonite
- Others available on our website

Storage Conditions

BiOWiSH® Crop Liquid and BiOWiSH® Crop Liquid Green Choice should be stored in a cool, dry location out of direct sunlight. Storage above 40°C (104°F) and below 4°C (39°F) for extended periods is not recommended. Once opened, keep in an airtight container to maintain the integrity of the product. Prevent spillage and separate from strong oxidizers. The storage shelf-life of BiOWiSH® Crop Liquid and BiOWiSH® Crop Liquid Green Choice is 3 years when stored as recommended.

Solid fertilizers coated with BiOWiSH® Crop Liquid or BiOWiSH® Crop Liquid Green Choice have a shelf life of up to two years when packaged in a suitable bag and store as directed, provided that the uncoated fertilizer's physical integrity specifications allow. The stability of BiOWiSH® coated fertilizers stored and handled in unpackaged bulk volumes varies by climate and operational practices.

Technical Support

For more information or to find a distributor near you, visit our website or use our contact information below.

NOTE: BiOWiSH® Crop Liquid Green Choice is formulated for coating urea and ammonium sulfate only. BiOWiSH® Crop Liquid may be used for many fertilizer materials. Please see product labels and compatibility technical bulletin documents in the resource section of our web page for more information.