

PTR-094

Aquarius[™] Control ENA film coating systems

Reconstitution Instructions

Materials

- Aquarius Control ENA film coating system
- Water, preferably deionized or distilled, ambient temperature

Equipment

- Mixing vessel with 25–35% greater height than the liquid level; diameter of the mixing vessel should be approximately 75–100% of the height of the liquid
- Variable speed mixer (100–2000 rpm)
- Propeller stirrer

Preparation Guidelines

1. Weigh the required quantity of water into the mixing vessel.
2. Weigh out the required quantity of Aquarius Control ENA film coating system.
3. Center the propeller stirrer in the mixing vessel so that it is as close to the bottom as possible (see Figure 1a).
4. Set the mixer to the fastest possible speed which maintains a vortex without drawing air into the water. It is recommended to use a speed no less than 800 rpm.
5. Add the Aquarius Control ENA film coating system powder to the vortex as quickly as possible, avoiding flotation of the powder and increasing the mixer speed as necessary to maintain the vortex (see Figure 1b).
6. Maintain the mixer speed to give vigorous mixing throughout the 60 minute reconstitution period (see Figure 1c).



Figure 1. a: Propeller stirrer properly positioned in mixing vessel. **b:** Addition of Aquarius film coating system powder to the water. **c:** Mixing for 60 minutes.

Suspension Handling

At the end of the reconstitution period, it is recommended to pour the suspension through a 60 mesh screen. Coating suspensions made with Aquarius™ Control ENA film coating systems should be gently stirred throughout the coating process.

Usage

It is recommended to use Aquarius Control ENA film coating systems at 20% w/w solids in water. The maximum solids level will depend on the particular spray gun, pump and coating equipment used.