

# Opadry® QX

Quick and Flexible Coating System

## Reconstitution - Clear

Opadry® QX Clear, quick and flexible film coating system, is easy to prepare. Simply pour the Opadry QX Clear powder into water and mix for 25 minutes with a propeller stirrer as described below.\* It is recommended that this coating suspension is reconstituted at 8% solids w/w and applied to a weight gain of 1.24 mg/cm<sup>2</sup> (1%). Your Colorcon Area Technical Manager (ATM) can assist you to optimize the solid levels for this dispersion according to the atomizing capabilities of your equipment.

## Materials

- OPADRY® QX Clear film coating system
- Water, deionized or distilled preferred, ambient temperature (maximum 30 °C)

## Equipment

- Variable-speed mixer capable of producing and maintaining a vortex.
- Propeller stirrer with a diameter equivalent to 1/3 - 1/2 of the diameter of the mixing vessel. (Figure 1)
- Mixing vessel large enough to contain a liquid volume 15% to 25% greater than the total suspension being prepared. The liquid height should be equal to or greater than the vessel diameter.

## \*Mixing Procedure

1. Weigh necessary quantity of water into the mixing vessel.
2. Weigh necessary quantity of OPADRY® QX Clear film coating system.
3. Place the propeller in the center and as close to the bottom of the vessel as possible. Stir the water to form a vortex without drawing air into the liquid. (Figure 1)
4. Steadily add the OPADRY® QX Clear powder to the vortex, avoiding powder flotation on the liquid surface. If required, increase the stirrer speed in order to maintain the vortex.
5. After all the OPADRY® QX Clear powder has been added, reduce the mixer speed to nearly eliminate the vortex.
6. Mix for 25 minutes

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## Suspension Handling

The prepared OPADRY® QX Clear dispersion can be pumped directly from the preparation vessel if desired.

**We recommend that the OPADRY® QX Clear dispersion be gently agitated during the coating process.**

Figure 1

