Product Information

Reconstitution

**Opadry**®

One Step Film Coating System

Opadry<sup>®</sup>, one step film coating system, is quick and easy to prepare. Simply add the pre-formulated powder to the relevant solvents and mix for 45 minutes with a propeller stirrer.\* The coating suspension can be made with 5 - 15% w/w solids in water or up to 5 - 8% w/w solids in organic solvent or hydro-alcoholic solvent solutions. The recommended solvent solutions are as follows: Alcohol/methylene chloride (dichloromethane): 50/50 or Alcohol /purified water: 80/20. The recommended type of alcohol, in order of preference is methanol, ethanol, or isopropyl alcohol. Your Area Technical Manager can recommend the ideal solids and solvents for your specific Opadry system and equipment.

## MATERIALS

- Opadry film coating system.
- Water, deionized or distilled preferred ambient temperature (maximum 30° C).
- Alcohol (see above for suggested alcohol type).
- Methylene Chloride (dichloromethane).

## EQUIPMENT

- Variable-speed mixer capable of producing and maintaining a vortex.
- Propeller stirrer. For optimum mixing, utilize a propeller with a diameter equivalent to 1/4 1/3 of the diameter of the mixing vessel. (Figure 1.)
- Mixing vessel large enough to contain a liquid volume 15% to 25%

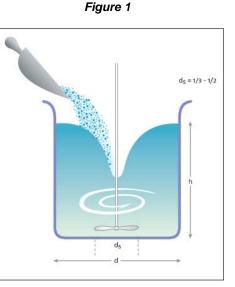
greater than the total suspension being prepared. The liquid height and vessel diameter should be equal.

## \*MIXING PROCEDURE

- 1. Weigh necessary quantity of Opadry film coating system.
- 2. Weigh necessary quantity of solvent into the mixing vessel.
- 3. With the propeller in the centre and as close to the bottom of the vessel as possible, stir the solvent to form a vortex without drawing air into the liquid.
- 4. Steadily add the Opadry system 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 system has been added, reduce the mixer speed to nearly eliminate the vortex. Mix for 45 minutes.

## SUSPENSION HANDLING

- The prepared Opadry dispersion can be pumped directly from the preparation vessel if desired.
- We recommend that the Opadry dispersion be gently agitated during the coating process.





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