

Reconstitution

Opadry®, Complete Film Coating Systems, are quick and easy to prepare. Simply add the pre-formulated powder into the water or solvent and mix for 45 minutes with a propeller stirrer as described below. *

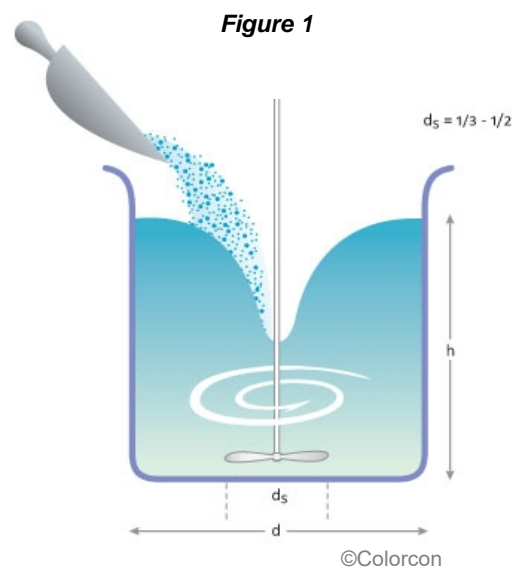
It is recommended that this coating suspension is reconstituted at up to 15% solids w/w for aqueous systems, or up to 5-8% for organic systems and applied to a weight gain of 2.48 - 3.71 mg/cm² (2 - 3%). Your Colorcon Area Technical Manager (ATM) can assist you to optimize the solid levels for this dispersion according to the atomizing capabilities of your equipment.

MATERIALS

- Opadry film coating system.
- Water, deionized or distilled preferred ambient temperature (maximum 30°C).
- See recommended solvent systems (above) or ask your local Colorcon Area Technical Manager for advice.

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 or other solvent(s) into the mixing vessel.
2. Weigh necessary quantity of Opadry film coating system.
3. Place the propeller in the center and as close to the bottom of the vessel as possible. Stir the liquid to form a vortex without drawing air into the liquid. (Figure 1)
4. Steadily add the Opadry 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 powder 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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