

Coating Parameters

Opadry[®] EC is a fully formulated organic solvent based barrier membrane coating system for multiparticulates and tablets. Opadry EC provides customized release profiles through the choice of three standard formulations (with no, low and high porosity levels) and the weight gain applied.

The coating parameters recommended for use with Opadry EC are based on Colorcon trial data. Individual product and machine settings should be taken into account and conditions altered as required. For further technical advice, please contact your Colorcon Area Technical Representative (ATM).

Coating Parameter	GPCG-2	Vector VFC LAB-1	Freund-Vector VFC-60M with Wurster Accelerator
Solvent (90:10 w/w)	Isopropanol:water	Ethanol:water	Isopropanol:water
Solids content (% w/w)	6-8	6-8	6-8
Theoretical weight gain (%)	10	10	10
Batch size (kg)	0.75	0.8	35.0
Inlet air temperature (°C)	43	48	40
Drying air volume (CFM / m ³ /hr)	45 / 77	75 / 127	850 / 1444
Product temperature (°C)	30	33	30
Exhaust air temperature (°C)	28	33	30
Spray equipment	Schlick	Vector	Schlick
Partition height (cm)	1.5	2.5	3.8
Fluid nozzle (mm)	1.2	1.0	1.8
Air cap (mm)	3.0	2.5	8.89
Atomizing air pressure (bar)	1.2	2	3.0 – 3.5
Fluid delivery rate (g/min)	8	9	200

Opadry EC is reconstituted to 6-8% w/w solids dispersion, dependent on the solvent used. Typical recommended weight gains are 10% to 40% depending on the shape, size and surface area of the multiparticulate or tablet.

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For more information, contact your Colorcon representative or call:

North America
+1-215-699-7733

Europe/Middle East/Africa
+44 (0)-1322-293000

Latin America
+54-11-5556-7700

India
+91-832-6727373

China
+86-21-61982300

You can also visit our website at www.colorcon.com



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