

Coating Parameters – Pigmented or White Formulations

231U formulas are the pigmented coating part of the Opadry® SGR, rapid sugar film coating system used to add a pigmented (or white) color. The other components (sold separately) include a bulk coating for rounding the tablet core, and a clear coat to produce the high gloss finish. It is recommended that formula 231U coating suspensions are reconstituted at 20% solids w/w and applied to a minimum weight gain of 4.2 - 5.6 mg/cm² (3 - 4%). The coating parameters listed in the table below are based on Colorcon data. Individual product and machine functions should be considered and conditions altered as required.

		Fully Perforated Side Vented Coating Pan				Conventional Pan
Pan Diameter	cm	38.1	60.96	122	152.4	40.64
	in	15	24	48	60	16
Solution Preparation						
Solvent		Purified Water	Purified Water	Purified Water	Purified Water	Purified Water
Solids Content	% w/w	20	20	20	20	20
Run Objectives						
Theoretical Weight Gain	% w/w	3	3	3	3	3
Tablet Charge [†]	kg [†]	1.5 – 3.0	12 - 15	120 - 160	320 - 350	1.5
Gun Configuration						
Example Spray Gun	type	Schlick 931/7-1 S22	Schlick 931/7-1 S35 (ABC)	Schlick 931/7-1 S35 (ABC)	Schlick 931/7-1 S35 (ABC)	Schlick 970/7-1 S75
Number of Guns	guns	1	1 - 2	3 - 4	5 - 6	1
Nozzle Diameter	mm	1.2	1.2	1.2	1.2	1.2
	in	0.05	0.05	0.05	0.05	0.05
Gun to Bed Distance	cm	10	17	25	25	15
	in	4	7	10	10	6
Gun to Gun Distance	cm	N/A	10	15	15	N/A
	in	N/A	4	6	6	N/A
Atomizing Air Pressure	bar	1.4	1.4	1.7	1.7	1.4
	psi	20	20	25	25	20
Pattern Air Pressure	bar	1.4	1.4	1.7	1.7	1.4
	psi	20	20	25	25	20
Process Parameters						
Drying Air Volume	cu.m/hr	250 - 290	424 – 470	2300 – 3060	5440 - 6630	140
	cu.ft/min	147 – 175	250 – 275	1350 – 1800	3200 – 3900	80
Pan Speed	rpm*	18	14	7	6	20
Pre-warm Tablet Bed	°C	45 - 50	45 - 50	45 - 50	45 - 50	45 - 50
	°F	113 - 122	113 - 122	113 - 122	113 - 122	113 - 122
Inlet Air Temperature	°C	60	65	65	65	70
	°F	140	149	149	149	158
Tablet Bed Temperature	°C	42 - 45	42 - 45	42 - 45	42 - 45	42 - 45
	°F	108 - 113	108 - 113	108 - 113	108 - 113	108 - 113
Spray Rate	g/min	12 - 20	40 - 60	250 - 350	475 - 720**	8
Approximate Coating Times	min	18 - 23	35 - 45	70 - 90	80 - 100**	28
*Pan speed should be set so that even mixing of the bed occurs. This will be influenced by tablet size, shape, friability and baffle type in the pan.						
[†] Tablet charge is dependent on tablet size and shape.						
** Estimated						

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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

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