

# COATER APPLICATION SELECTION GUIDE

Metric Units

			Gravure coater				Rod coater		Squeeze Roll Coater			Knife		Specialty				Die		Contour		Hot Melt		Reverse roll		
			Gravure Direct Forward	Gravure Direct Reverse	Gravure Indirect Forward	Gravure Indirect Reverse	Single Rod	Dual Rod or Smoothing Bar	2 Roll	3 Roll	5 Roll	Flex Bar	Floating	Saturators	Meniscus	Kiss	Vacuum	Direct	Contact	Air knife	Curtain	Die	Roll	3 Roll Pan Fed	3 Roll Nip Fed	3 Roll Fountain Feed
			MAX SPEED	M / MIN	1000	1000	365	450	1000	150	300	250	300	400	365	1000	400	900	300	250	350					
			SOLIDS	%	0.1-100	0.1-100	100	100	100	100	100	40	100	100	100	100	100	0.1-100	55	50	100					
			VISCOSITY	mPa*s	30-2000	30-2000	15-800	15-500	100-2000	500-50000	15-300	100-1500	15-500	SOLID	500-20,000	up to 300,000	15-500	300	50,000	500,000	200-40,000					
			COATWEIGHT	GSM	1-30	1-30	25	12	0.5-3	100	40	20	12	6	100	40	60			up to 400						
			SOLIDS																							
			Application	Coatweight GSM dry	Viscosity mPa*s	100 (%)	Dry (% Solvent)	Dry (% Water)																		
ADHESIVES	Water Based	1 - 80	50 - 1,000																							
	Solvent Based	2 - 60	200 - 3,000		25 - 50																					
	100%	0.5 - 4	500 - 3,000	●																						
	2 Components	0.5 - 4	1,000 - 20,000	●																						
	Gum	20 - 30	500 - 2,000			50 - 80																				
	Starch	10 - 30	50 - 2,000			25 - 40																				
	Latex	10 - 40	200 - 2,000			30 - 45																				
	Hot Melt	5 - 100	1,000 - 200,000	●																						
INKS	Pigment Color	1 - 30	100 - 500			30 - 60																				
	Fluorescent Color	5 - 20	50 - 1,000			25 - 40																				
	UV Paint	4 - 12	500 - 5,000	●																						
	Primer Paint	0.2 - 2	100 - 600		10 - 30	10 - 60																				
	PVDC	4 - 12	50 - 200			50 - 60																				
SILICONE	Penetration Barrier	4 - 10	50 - 200			10 - 40																				
	Silicone Solvent based	0.2 - 0.6	20 - 300		6 - 25																					
	Silicone Water Based	0.4 - 1	40 - 500			10 - 30																				
	100% Silicone	0.5 - 1.5	500 - 2,000	●																						
SPECIALTY	Carbonless (CF - CB)	3 - 7	50 - 400			15 - 40																				
	Clay	3 - 6	80 - 300			30 - 45																				
	Diatzo	3 - 15	20 - 60			25 - 50																				
	Thermal coating	3 - 8	40 - 80			30 - 50																				
	Photo Sensitive	3 - 10	20 - 400		6 - 20																					
	Receiver for Color Laser Print Paper	2 - 12	50 - 200			5 - 30																				
	Magnetic	3 - 10	1,000 - 5,000		10 - 33																					
	Wallcovering - Vinyl Dispersion	15																								
	Wax	3 - 20	20 - 200			10 - 25																				
	Thermal Transfer	2-5	100 - 200		30 - 50																					
	Metal			●																						