



Coatings Comparison Table

	ELECTROCOAT				POWDER			LIQUID		
	Anodic Acrylic	Anodic Epoxy	Cathodic Acrylic	Cathodic Epoxy	TGIC	Polyester	Hybrid	Solvent	Waterbase	High Solids
<b>Substrates</b>										
Wood	No	No	No	No	Limited	Limited	Limited	Yes	Yes	Yes
Plastic	No	No	No	No	Limited	Limited	Limited	Yes	Yes	Yes
Aluminum	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Ferrous	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
Brass and Nickel	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes	Yes
<b>Performance</b>										
Hardness	2-3	2-3	4	4	H-2H	H-2H	H-2H			
Adhesion	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent
Edge coverage	Excellent	Excellent	Excellent	Excellent	Good	Good	Good	Good	Good	Good
Corrosion Resistance	Fair	Good	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Excellent
UV Resistance	Good	Fair	Good	Poor	Good	Good	Good	Good	Good	Good
Transfer Efficiency	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Fair	Fair	Fair
Film Uniformity	Excellent	Excellent	Excellent	Excellent	Good	Good	Good	Fair	Fair	Fair
Mil thickness	0.4-2.0	0.4-2.1	0.4-2.2	0.4-2.3	1.4-30.0	1.4-30.1	1.4-30.2	0.4-1.5	0.4-1.5	0.6-2.5
Cavity Area Coverage	Excellent	Excellent	Excellent	Excellent	Poor	Poor	Poor	Fair	Fair	Fair
Wrap	Excellent	Excellent	Excellent	Excellent	Very Good	Very Good	Very Good	Very Good	Good	Very Good
Sag Resistance	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Excellent	Good	Good	Good
Gloss	Excellent	Good	Fair	Fair	Good	Good	Good	Excellent	Excellent	Excellent
Drips and Run Risk	Low	Low	Low	Low	Low	Low	Low	High	High	High
<b>Operating Cost</b>										
Dry-Off Required	No	No	No	No	Yes	Yes	Yes	Yes	Yes	Yes
Cure Temperature	Low	Low	High	High	High	High	High	Low	Moderate	High
Oven Exhaust Rate	High	High	High	High	Low	Low	Low	Moderate	Moderate	Moderate
Booth Exhaust Rate	Low	Low	Low	Low	None	None	None	High	High	High
Total Energy Cost	Low	Low	Moderate	Moderate	Moderate	Moderate	Moderate	Low	High	High
Labor	Low	Low	Low	Low	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate
Applied Coating Cost	Low	Low	Low	Low	Low	Low	Low	High	Moderate	Moderate
Overall Operating Cost	Low	Low	Low	Low	Moderate	Moderate	Moderate	High	High	Moderate
<b>Capital Cost</b>	High	High	High	High	Moderate	Moderate	Moderate	Low-High*	Low	Low
* if pollution control required										
<b>Environmental</b>										
Wastewater (paint)	Slight	Slight	Slight	Slight	None	None	None	Moderate	Low	Slight
VOC's & HAPS	Low	Low	Low	Low	None	None	None	Mod-High	Low	Moderate
Solid Waste	Low	Low	Low	Low	Low	Low	Low	Moderate	Moderate	Moderate
<b>Operational</b>										
Quick Color Change	Poor	Poor	Poor	Poor	Moderate	Moderate	Moderate	Good	Good	Fair
Hook Cleaning Freq.	Low	Low	Low	Low	High	High	High	High	Low	High
Contamination Risk	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Low	Low	Moderate
Technical Knowledge	High	High	High	High	Low	Low	Low	Low	Moderate	Moderate
Fire Hazard	Low	Low	Low	Low	Low	Low	Low	High	Low	Moderate
Elect. Shock Hazard	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate	Moderate