



TECHNICAL C&A INFORMATION

Product Comparison - Waterbased v UV v1.1

Below is a general comparison between UV and Waterbased coating products for use as a reference only. For specific product information in terms of Application/Limitations, Use, Compatibility and Pricing, please contact your Coatings and Adhesives Corporation Technical Sales Representative.

General Product Comparison - Waterbased v UV

	Waterbased Coating	UV Coating
Over-Print Compatibility		
<i>Substrates - Paper/Paperboard</i>	Yes	Yes
<i>Substrates - Non-Absorbent</i>	Special Formulation	Special Formulation
<i>Sheetfed Inks - Conv, Hybrid, UV</i>	Yes	Yes
<i>Flexographic Inks - Water, Solvent, UV</i>	Yes	Yes
<i>Gravure Inks - Water, Solvent, UV</i>	Yes	Yes
<i>Digital Ink</i>	Special Formulation	Special Formulation
<i>Digital Toner</i>	Special Formulation	Special Formulation
Application		
<i>Shelf-Life - New/Un-used</i>	Up to 3 years	Up to 6 months
<i>Application Method</i>	Anilox, Roller-nip, Ink-train	Anilox, Roller-nip, Ink-train, Screen
<i>Application Configuration</i>	In-line, Off-line	In-line, Off-line
<i>Drying Principle</i>	Evaporation/Absorption	Reactive Polymerization
<i>Drying Equipment</i>	Infrared Lamp/Hot-Air/Air-Extraction	Ultra-violet Lamp/Reflector
<i>Drying/Curing Time</i>	Immediate Off-press Protection	Instant
<i>Spray Powder</i>	Minimal to None	None Required
<i>Make-Ready Time</i>	< 20 min	< 20 min
<i>Wash-Up Time</i>	< 15 min	< 15 min
<i>Cleaning Chemistry</i>	Water, IPA, Ammonia, AQ Cleaner	IPA, Butyl Cellulose, Aromatic Hydrocarbon
<i>Coating Blanket/Plate</i>	Yes	UV Compatible Materials
<i>Rubber Roller Compound</i>	Nitrile Rubber, Urethane, Dual Purpose	EPDM, Dual Purpose

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	Characteristics	
Available Finishes	High-Gloss, Gloss, Satin, Matte/Dull	High-Gloss, Gloss, Satin, Matte/Dull
Typical Gloss Value - 60°	45 - 55	75 - 95
Ink/Pencil Receptive	Special Formulation	Special Formulation
Gluable	Yes	Special Formulation
Foil Stampable	Yes	Special Formulation
Film Lamination	Special Formulation	Special Formulation
Digital Ink/Toner - Imprint	Special Formulation	Special Formulation
Yellowing	No	No
VOC Content	0 - 3%	No
FDA Direct Food Compliance	Special Formulation	No
Pearl, Glitter, Grit/Texture	Special Formulation	Special Formulation
Contrast Varnish	Yes	Yes
Reticulation Varnish	No	Special Formulation
Softfeel	Special Formulation	Special Formulation

	Cost	
Cost/lb - General Use Products	\$0.85 - \$1.25	\$2.50 - \$4.50
Cost/lb - Specialty Products	\$1.25 - \$50	\$4.50 - \$100
Solids - Liquid State	30 - 40%	100%
Typical Wet Coat-weight, lb/1000 ft²	~ 1.0	~ 1.2
Typical Dry Coat-weight, lb/1000 ft²	~ 0.3 - 0.4	~ 1.2
Typical Dry Coat-weight, lb/3000 ft²	~ 0.9 - 1.2	~ 3.6