



COATINGS-OVERPRINT VARNISH, BOOK COVERS, HEAT SEALS

Dating from the late 1800's, UPACO has a history of supplying coatings, starting with finishes for textiles. Our first coatings for printing were solvent-based, nitrocellulose formulas and then we made the transition into water-based technologies. UPACO's specialty coatings for the printing industry include waterborne gravure applied formulations that run at high speeds for multi-wall bags, rod metered coatings for heavy weight paper, and water dispersion heat seals, used for edge turning or seaming of paper or film constructions. We custom compound coatings both to meet the stringent requirements of our customers' applications and to perform well on their specialized coating equipment.



WATERBORNE OVERPRINT VARNISHES (OPVs)

Product	Description	Solids	Solvents	Applications	Method
UPACO OP86-A	Acrylic based emulsion forms hard film with excellent wet block, heat and rub resistance.	41%	3.7% glycol ether	Small bags, low COF (0.2 - 0.35) face-to-face. Wet block resistance suitable for bottom pasting. Heat resistance for gusset forming by heated jaws up to 350°F.	Gravure and flexographic presses
UPACO OP97-K	Acrylic based emulsion forms a hard film with higher gloss than UPACO OP86-A, but has a balance of wet block, heat and rub resistance.	42%	4.0% glycol ether	Small to medium bags, has higher COF (0.3 - 0.5). Film remains clean when exposed to dust and powders during filling operations (i.e. charcoal).	Gravure and flexographic presses
UPACO 8995	Acrylic-urethane based emulsion forms a tough flexible film with excellent heat and high humidity block resistance.	42%	< 1.5% VOC (NMP)	Book covers. Clear coating, crease whitening and scuff, embossable, and foil stampable.	Rod coater
UPACO OP02-A	Acrylic based emulsion. Forms a low gloss film with excellent heat resistance.	40%	< 0.1% VOC	Low gloss coating developed as an overprint for paper packaging. Formulated for applications where high heat resistance is required, > 400°F W fold face-to-face	Gravure press
UPACO R653-A	Acrylic based emulsion forms a glossy film with excellent crease whitening and rub resistance	42%	< 1% VOC	High gloss and low COF (0.15 - 0.3) where wet block and high heat resistance are not required	Offset litho
UPACO R749-A	Acrylic based emulsion forms a tough, rub resistant coating with good block resistance	41%	< 1% VOC	Open time to be nondrying on print blankets, flows smoothly over solvent or water-based inks, and dries quickly	Offset litho



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WATERBORNE HEATSEALS

Product	Description	Solids	Solvents	Applications	Method
UPACO HS66-C	Low activation temperature block resistant heat seal	39%	<1% VOC	Heat seal for lidding operations requiring low peel strength and for fibrous materials because of its low activation temperature (200 - 250°F).	Roll coat, metered rod
UPACO R635-B	New development for blister pack, block resistant in roll or stack. Good clarity and high gloss	40%	3.5% VOC (NMP)	Applied printed paper or board Activates at 275 - 300°F to PVC film	Gravure

SOLVENTBORNE OVERPRINT VARNISHES (OPVs)

Product	Description	Solids	Solvents	Applications	Method
UPACO R721-A	Nitrocellulose based clear lacquer forms a hard film with excellent wet block, heat and rub resistance	77%	Methyl alcohol, ethyl acetate, hexane, and isopropyl alcohol	Small bags, has a low COF (0.2 -0.35) face-to-face. Wet block resistance suitable for bottom pasting. Heat resistance for gusset forming by heated jaws up to 350°F	Gravure and flexographic presses
UPACO R717-B	Nitrocellulose based clear lacquer forms a hard film with high gloss and a balance of wet block, heat and rub resistance	77%	Methyl alcohol, ethyl acetate, hexane, and isopropyl alcohol	Small to medium bags, higher COF (0.3 - 0.5). Film remains clean when exposed to dust and powders during filling operations (i.e. charcoal).	Gravure and flexographic presses
UPACO R716-A	Nitrocellulose based clear lacquer forms a hard film with high gloss and excellent water resistance.	77%	Methyl alcohol, ethyl acetate, hexane, and isopropyl alcohol	Where low COF is required. COF < 0.15 with excellent abrasion resistance	Gravure and flexographic presses
UPACO 4830	Nitrocellulose based clear lacquer forms a hard film with high gloss and excellent water resistance	77%	Ethyl alcohol, ethyl acetate, isopropyl acetate, toluene, hexane, and isopropyl alcohol	Small bag, has low COF (0.15 - 0.30) face-to-face. Wet block resistance suitable for bottom pasting. Heat resistance for gusset forming by heated jaws up to 350°	Gravure press

The UPACO Adhesives Division of Worthen Industries takes pride in offering high quality products and service to manufacturers since 1866. UPACO manufactures a variety of water-based, hot melt, and solvent adhesives used for paper converting, food packaging, industrial, and general packaging. We supply protective gloss paper coatings and overprint vanishes for paper of various weights. In addition, we have adhesives for paper, foil, or polyolefin laminates, and products for forming or sealing bags, cartons, and boxes. We will develop custom products to solve specific application problems.

Call UPACO Adhesives at (800) 446-9984 for additional information.



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