



PRODUCT APPLICATIONS

UPACO Adhesives

Paper Converting Adhesives Group

PRODUCTS FOR CASE AND CARTON SEALING

The UPACO Division of Worthen Industries supplies water-based and hot melt adhesives for sealing cartons and cases and other packaging operations. We offer products with a range of viscosities, open times, and set speeds to meet a variety of packaging conditions. From our history as one of the oldest adhesive manufacturers in the United States, we have starch and dextrin based products useful for case sealing or labeling operations, and products that have proven performance and years of service. We supply hot melts in easy to use pellets, the preferred form for adhesive auto-feeders. We provide water-based products for clean operation of wheel applicators, nozzles, and roll coaters. UPACO can also supply specialty adhesives to meet the challenges of new substrates, coatings, or package designs encountered by the packager today.



HOT MELT ADHESIVES

UPACO offers a broad line of hot melt adhesives for packaging applications such as box and tray forming or case and carton sealing. Our offerings range from clean running, long pot life adhesives such as UPACO 9208-1, which has been a standard in box forming for over 20 years, to new, low operating temperature products. UPACO 9359-1 Low Burn adhesive reduces requirements for energy and machine maintenance, lessens wear on equipment, and improves operator safety. We supply products as easy to use pellets except as noted.

Product	Description	Operating Temperature	Viscosity	Applications	Method
UPACO 9208-1	Quick set hot melt, excellent pot stability	325-375° F	1300 CPS @ 350° F	Uncoated corrugated, tray forming including SBS, clay coated, and printed carton stocks	Tray, bliss, box, and lid formers, all case sealers
UPACO 9209-1	Long open-time, high hot-tack, fast setting	350-375° F	1250 CPS @ 350° F	Deep fiber-tear on most corrugated stocks, where open-time and compression-time are varied	Tray, bliss, box, and lid formers, all case sealers
UPACO 9205-1	Medium open time and set-speed, EZ melting pellets	325-375° F	825 CPS @ 350° F	Tray making, case and carton sealing, typical sbs or clay coated stocks, fiber board and wood	Tray, bliss, box, and lid formers, all case sealers
UPACO 9212-0	Low viscosity for application of fine beads, EZ melting pellets	300-350° F	425 CPS @ 325° F	Tray making, case and carton sealing, most sbs or clay coated stocks	Tray, bliss, box, and lid formers, all case sealers
UPACO 9359-1	Low operating-temperature low burn adhesive	275-300° F	1390 CPS @ 275° F	Tray forming, carton sealing, high-speed beverage and similar packaging lines	Tray, bliss, box, and lid formers, all case sealers



PRODUCTS FOR CASE AND CARTON SEALING

SPECIALTY HOT MELTS

Product	Description	Operating Temperature	Viscosity	Applications	Method
UPACO 9110-2	Hot-fill clean running adhesive with excellent pot life, low color, low odor, high melt point, easy to use pellets	325-375° F	2100 cps @ 350° F	Case seal for applications requiring high heat resistance	Tray, bliss, box, and lid formers, all case sealers
UPACO 9229-0	Hot melt with low viscosity and fast set speed	325-375° F	750 cps @ 350° F	Difficult-to-adhere substrates, such as chipboard with high recycled pulp content, coatings, or polyolefin laminations	Hot melt extrusion nozzle
UPACO 9257-2	Long open-time, high hot-tack adhesive	325-375° F	1580 cps @ 350° F	Wet pack frozen food carton sealing, polycoated or laminated stocks	Hot melt extrusion nozzle
UPACO 9029-3	High strength bonding to polyolefins & plastics	325-375° F	3200 cps @ 350° F	Polylaminated cartons, film seaming such as poly bags, liners, film laminated substrates, bonding of plastics or foams	Hot melt extrusion nozzle
UPACO 9202-1	Heat sealable hot melt adhesive features rapid reactivation, high hot-tack, non-blocking in storage	300-350° F	1800 cps @ 325° F	Pre-applied thermostripe applications, reactivation at 200° F (min requirement); cartons, paper, foils	Hot melt extrusion nozzle
UPACO 9571-2	Permanent bonding pressure sensitive hot melt packaged in release cartons	325-375° F	2100 cps @ 350° F	Plastic materials or films, often sprayed	Hot melt extrusion nozzle

WATER-BASED ADHESIVES

Water-based products for case and carton sealing include dextrans for labeling cartons with display labels, products for polyolefins and coatings, as well as general-purpose dextrans and resins. We offer products customized for end uses and application equipment.

Product	Description	Solids	Viscosity	Applications	Method
UPACO 6309-0	Dextrin, good wet tack, easy clean-up	38%	1200 cps	Paper seaming such as for kraft bag side seaming	Nozzle extrusion
UPACO 6316-6	Fast setting dextrin case seal, high wet tack, easy clean-up	38%	4500 cps	Tube winding	Paper tape wet-glue applicators, wheel, roll coaters
UPACO 6932-0	General use white glue case seal, fast setting	55%	1800cps	Corrugated case sealing	Wheel or nozzle extrusion
UPACO 6739-0	Adhesive, high wet tack and green strength	59%	3000 cps	Corrugated case sealing with adhesion to coatings or poly-laminations	Wheel or nozzle extrusion
UPACO 6929-B	Carton seal, non pressure sensitive	55%	2700 cps	Adheres varnished, poly-coated or laminated cartons	Wheel or nozzle extrusion



PRODUCTS FOR CASE AND CARTON SEALING

SPECIALTY WATER-BASED ADHESIVES

Product	Description	Solids	Viscosity	Applications	Method
UPACO 6301-0	Dextrin stiff-bodied paste with high wet tack, natural white	40%	75,000 cps (stirred)	Paper labels to cartons, bag bottoms	Top-load paster
UPACO 6315-0	Labeling adhesive, white dextrin low viscosity, high set speed, easy clean up	28%	375 cps	Cartons, paper to paper	Roll coaters
UPACO 6602-0	Pressure sensitive	52%	4000 cps	Plastics or other non-porous materials to corrugated	Wheel applied or brushable
UPACO 6903-0	High wet tack, dries to brittle film which allow cartons to break free after fully dry	54%	800 cps	Palletizing lock & pop	Nozzle or hand applied by squirt bottlers
UPACO 6905-2	Adhesive with high wet tack and a very rapid set speed	54%	1250 cps	Foil coated cartons	Wheel applicator
UPACO R699A	Water-based self-seal adhesive, non-blocking contact adhesive. pre-applied in pattern	62%	850 cps	Cartons, packager presses folded flaps together to seal	Roll coater, hand applied rollers, or brush

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.



UPACO Adhesives Group
Worthen Industries, Inc.
4105 Castlewood Road
Richmond, VA 23234

(804) 275-9231
(800) 446-9984
Fax: (804) 743-8366
www.worthenindustries.com