

Lubrizol

PERFORMANCE COATINGS



ADHESIVES & SEALANTS



ADHESIVES TECHNOLOGY PRODUCT GUIDE

POLYMERS & BINDERS FOR ADHESIVES



PRODUCT NAME	PRODUCT TYPE	APPLICATIONS										TYPICAL PROPERTIES				KEY ATTRIBUTES
		LABELLING	HEAT SEAL	COLD SEAL	WET/DRY LAMINATION	MASKANT & REMOVABLE FILMS	PSA	TAPES	SPECIALTY CONSTRUCTION	TEXTILE NW	SOLIDS %	TG (°C)	pH	VISCOSITY (cps)		
Carbotac™ 1811	Acrylic Emulsion	●					●	●			55	-43	5	120	Good adhesive strength, high tack and peel performance, suitable for 'cold applications' eg. freezer labels. Excellent 'runability' at high and low speeds. Solvent and plasticiser resistance. Ease of formulation. FDA 175.105; 176.170; 176.180; 177.2600.	
Carbotac™ 1814	Acrylic Emulsion	●		●	●	●	●	●	●		55	-30	5	80	High cohesive strength for applications requiring oil and plasticiser resistance; adhesive for rubber substrates, carpets and tiles; Broad FDA approvals. ¹	
Carbotac™ 1822	Acrylic Emulsion	●				●	●	●			55	-43	5	200	Moderate tack and peel, high cohesion for removable/repositionable adhesives. Vinyl and ceramic tile adhesive. FDA 175.105; 176.170; 176.180.	
Carbotac™ 26171	Acrylic Emulsion	●				●	●	●			50	-43	3	125	Good balance of tack, peel and shear; FDA 175.105; 176.180.	
Carbotac™ 2897	Acrylic Emulsion	●			●	●	●	●			65	-35	5	150	Adhesion to a range of substrates, good tack and plasticizer resistance. FDA 175.105, 176.180.	
Carbotac™ 2990N	Acrylic Emulsion	●				●	●	●			59	-32	5	50	High peel strengths, adhesion to polyolefin and metal substrates, plasticizer resistance.	
Carbotac™ 26146	Acrylic Emulsion	●				●	●	●			51	-55	7	100	Medium to high tack with adhesion to low surface energy substrates.	
Carbotac™ 26222	Acrylic Emulsion	●			●	●	●	●			50	-55	8	70	High cohesive strength for applications needing oil and plasticizer resistance. FDA 175.105.	
Carbobond™ 1995	Acrylic Emulsion				●	●					55	-30	4	100	Film-to-film and film-to-foil dry/wet lamination; very fast drying; high bond strengths; FDA 175.105.	
Carbobond™ 26373	Acrylic Emulsion		●		●				●		58	5	3	90	Strong adhesion to polar substances with excellent water resistance; fast drying and high bond strength for wet laminations; high oil and plasticiser resistance after crosslinking; broad FDA approvals. ¹	
Carbobond™ 26387	Acrylic Emulsion							●			61	-23	5	275	Flexible with adhesion to glass, metal and wood; high filler loading; thickens with pH; recommended for caulk and sealant applications.	
Carbobond™ 3005	Acrylic Emulsion		●		●						47	9	8	500	Low temperature heat seal; fast seal time; suitable for flexible packaging; high gloss; FDA 175.105; 175.300; 175.320; 176.170; 176.180; 177.1210.	
Carbobond™ 3028	Acrylic Emulsion		●								50	-10	7.5	1000	Suitable for paper-to-film, film-to-film heat seal applications.	
Hycar® 26084	Acrylic Emulsion		●						●		48	8	6	70	Suitable for paper coating; excellent solvent and plasticiser resistance; self-crosslinking; blendable with natural rubber; broad FDA approvals. ¹	
Hycar® 26288	Acrylic Emulsion		●	●							49	20	4	60	Recommended for nylon, mylar and paper substrates; excellent scrub resistance; component for cold seal formulations; broad FDA approvals. ¹	
Hycar® 26315	Acrylic Emulsion		●								49	55	2	40	Tack-free hard polymer; recommended for paper substrates; excellent water resistance and heat stability; excellent scrub resistance; broad FDA approvals. ¹	
Hycar® 26448	Acrylic Emulsion		●						●		51	16	10	100	Excellent water resistance; FDA 175.105; 176.170; 176.180; 177.1200.	
Hycar® 26450	Acrylic Emulsion			●					●		46	32	4	25	Excellent colloidal stability for formulating with natural rubber for cold seal application.	
Hycar® 26-0202	Acrylic Emulsion		●					●			50	-12	3.7	450	Wood adhesive, superior water resistance and exterior durability.	
Hystretch™ 7318	Acrylic Emulsion			●					●		50	-60	7	200	Ultra-soft with low tack; can be easily blended with other polymers in cold seal formulations; resilient.	
Carboset® CA1009	Acrylic - Polyurethane Hybrid							●			55	10	8.5	600	Acrylic-Polyurethane hybrid emulsion; excellent water resistance and durability against weather; fast drying; strong adhesion to cementitious substrates, roofs and facades.	
Carboset® X-Flex 100	Acrylic Emulsion							●			60	-40	8.5	300	High flexibility for construction adhesive formulations.	
Sancure™ 970	Polyurethane Dispersion		●								42	Firm	8.5	500	NMP-free ² polyurethane dispersion; excellent adhesion to multiple substrates; suitable for flexible packaging; can be externally crosslinked to enhance performance.	
Sancure™ 12929	Polyurethane Dispersion		●								40	Soft	8	1000	Non yellowing, soft hand, excellent adhesion to many flexible plastics.	
Sancure™ 20025F	Polyurethane Dispersion		●						●		47	Soft	8	400	Elastic aliphatic polyester urethane dispersion; low VOC ³ ; externally crosslinkable; can be used in tie coats and laminating adhesives with polyesters and nylon; FDA 175.105.	
Vycar™ 460x46	Vinyl Chloride - Acrylic Copolymer Emulsion		●						●		49	7	7	40	Vinyl chloride-acrylic copolymer; flame retardant and weather resistant; self-crosslinking; flock adhesives; FDA 175.105.	
Vycar™ 460x49	Vinyl Chloride - Acrylic Copolymer Emulsion		●						●	●	50	40	5	20	PVC acrylic copolymer, flame retardant and weather resistant, high film strength, FDA 175.105, 176.180.	

¹Broad FDA Approvals = FDA 175.105; 175.125; 175.300; 175.320; 176.170; 176.180; 177.1010; 177.1200; 177.1210; 177.1390; 177.2260; 177.2600; 178.3790.

²Ingredient not intentionally contained in the composition or used in manufacture.

³Low VOC indicates product can be used to make formulations with less than 50 g/l VOC.

PERFORMANCE ADDITIVES FOR ADHESIVES



PRODUCT NAME	PRODUCT TYPE	ADHESIVE SYSTEMS							FILLERS		APPLICATION			
		SOLVENT BORNE/ SOLVENT FREE				WATER-BASED	RADIATION CURING	HOT MELT	ORGANICS	INORGANICS	DISPERSION & WETTING	RHEOLOGY CONTROL	ANTI-BLOCKING	DEFOAMING
		POLYURETHANE	EPOXY	ACRYLIC	UPR									
Performax® 11176	Mineral Oil					•								•
Solplus® F100	Air Release Agent	•	•		•						•			•
Carbosperse® K-572	Polyelectrolyte			•		•				•	•			
Carbosperse® K-775	Polyelectrolyte					•				•	•			
Lanco™ Antifloat D-14	Deaerator		•								•			
Solplus® AX5	Polymeric Dispersion					•				•	•			
Solplus® D510	Polymeric Dispersion		•		•				•	•	•			
Solplus® D520	Polymeric Dispersion								•	•	•			
Solplus® D540	Polymeric Dispersion			•		•			•	•	•			
Solplus® D570	Polymeric Dispersion		•		•	•			•	•	•			
Solplus® D580	Polymeric Dispersion		•						•	•	•			
Solplus® R700	Polymeric Dispersion	•							•	•	•			
Solplus® R720	Polymeric Dispersion	•							•	•	•			
Solsperse® 21000	Polymeric Dispersion						•		•	•	•			
Solsperse® 27000	Polymeric Dispersion					•			•	•	•			
Solsperse® 32500	Polymeric Dispersion								•	•	•			
Solsperse® 41000	Polymeric Dispersion			•			•		•	•	•			
Solsperse® 44000	Polymeric Dispersion					•			•	•	•			
Solsperse® 71000	Polymeric Dispersion						•			•	•			
Solsperse® M387	Polymeric Dispersion	•								•	•			
Solthix™ A200	Acrylic Emulsion					•						•		
Solthix™ A300	Acrylic Emulsion					•						•		
Carbopol® XPE3002	Polyacrylate Emulsion					•						•		
Hectone™ H	Montmorillonite Clay					•						•		
Ircogel® 900	Calcium Sulphonate Complex					•						•		
Solplus® TX5	Polymeric Dispersion	•	•		•							•		
Solthix® A100	Acrylic Emulsion			•		•						•		
Lanco™ A 1602	Amide Wax							•					•	
Lanco™ Glidd 6148	Polyethylene Wax							•					•	

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