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# Waterborne Acrylics and Polyurethanes for Plastic Coatings



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# Sancure® Polyurethanes And Carboset® Acrylics For High-Performance Plastic Coatings

The **Sancure® family of aliphatic waterborne polyurethane dispersions** provides enhanced abrasion resistance in coatings for plastic. Coatings based on Sancure dispersions are non-yellowing when exposed to UV light. Sancure products also provide excellent gloss, dry-film clarity, adhesion on various substrates, and excellent water and alcohol resistance.

Designed for forced-dry coatings, the **Carboset® family of waterborne acrylic copolymer emulsions** provides excellent chemical resistance and demonstrates superior durability. In addition, Carboset polymers can be blended with other emulsions and dispersions from Lubrizol to further enhance film formation, flexibility and solvent resistance.

## Applications

SPECIALTY TOPCOATS FOR RIGID, SEMI-RIGID & FLEXIBLE PLASTICS

## Polymer Performance Attributes

▲ Primary Attributes ● Secondary Attributes	INTERIOR AUTOMOTIVE				NON-AUTOMOTIVE				▲ Primary Attributes ● Secondary Attributes	PRODUCT	EASE OF FORMULATION	METALLIC PIGMENT COMPATIBILITY	FLEXIBILITY & IMPACT RESISTANCE	SOFT FEEL, TEXTURE	BLOCK, MAR, SCRATCH AND ABRASION RESISTANCE	SUN SCREEN LOTION RESISTANCE	INSECT REPELLENT RESISTANCE	RESISTANCE TO SURFACE CLEANERS AND PROTECTANTS	ALCOHOL RESISTANCE	WATER SOAK, SOAP AND ALKALI RESISTANCE	ORGANIC SOLVENT RESISTANCE	ACID RESISTANCE	OTHER PROPERTY
	Lacquers For Instrument Panels, Consoles & Door Handles	2K Soft-Touch Coatings For Dashboard, Arm Rest, Consoles & Air Bag Covers	Coatings Flexible Surfaces	Lacquers For TV Cabinets & Consumer Electronics Equipment	Lacquers For Business Machines	Coatings For Flexible Surfaces	Coatings Moldings & Frames	Temporary Protective Coating															
<b>SANCURE® WATERBORNE POLYURETHANE DISPERSIONS</b>										<b>SANCURE® WATERBORNE POLYURETHANE DISPERSIONS</b>													
	●		●	▲	▲	▲	▲			Sancure 777			●		▲			●	●	●			
	▲			▲	▲	▲	▲	▲		Sancure 835		●	▲	●	▲			▲					
									●	Sancure 898			●		▲			▲	▲		▲		
	▲		▲	▲	▲	▲	▲	▲		Sancure 2026		●	▲	▲	▲	▲		▲	▲	▲			Soft, Flexible
	●		●	▲	▲	▲	▲	▲		Sancure 2260						▲	▲	▲	▲	▲			
		▲	●							Sancure 12929			▲	▲	●	▲		▲	▲				NCO crosslinking
	●		●				▲			Sancure 20037			▲	●									Low flame response
<b>CARBOSET® WATERBORNE ACRYLIC EMULSIONS</b>										<b>CARBOSET® WATERBORNE ACRYLIC EMULSIONS</b>													
	▲			▲	▲					Carboset PC-21	▲	▲	▲		▲	▲	▲	▲	▲	▲	▲	▲	
				▲	▲		▲			Carboset CR-763	▲	▲			▲			▲	▲	▲	▲	▲	Adhesion to plastics and metal
	▲			▲	▲			●		Carboset CR-781					▲	●		▲	▲	▲	▲	▲	
				●			▲			Carboset CR-785	●				▲			▲	▲	▲			
								▲		Carboset PL-958			●		●					●			Temporary, Peelable

COATINGS FOR SEMI-RIGID AND FLEXIBLE SURFACES  
**SANCURE®** 777, 2026 AND 12929 POLYURETHANES PROVIDE EXCELLENT ADHESION, CHEMICAL AND ABRASION RESISTANCE AND AESTHETICS



LAQUERS FOR CONSUMER ELECTRONICS FROM TV CABINETS AND BUSINESS MACHINES TO CD AND DVD PLAYERS, **CARBOSET®** CR-763 ACRYLIC EMULSION AND **SANCURE®** 835, 2260 POLYURETHANES ENHANCE DURABILITY AND AESTHETICS



## Polymer Specifications

PRODUCT	TYPE	% SOLIDS	VOC, LBS/GAL (G/L)	SWARD ROCKER HARDNESS	% MODULUS, PSI (MPA)	TENSILE STRENGTH, PSI (MPA)	ELONGATION AT BREAK, %
<b>SANCURE® WATERBORNE POLYURETHANE DISPERSIONS</b>							
Sancure 777	aliphatic-polyester	35	2.11 (253)	32	2000 (13.79)	5100 (35.16)	410
Sancure 835	aliphatic-polyester	40	2.48 (297)	4	345 (2.38)	4900 (33.78)	600
Sancure 898	aliphatic-polyester	32	2.15 (258)	48	5125 (35.34)	6100 (42.06)	300
Sancure 2026	aliphatic-polyester	40	1.56 (187)	14	950 (6.55)	4200 (28.96)	560
Sancure 2260	aliphatic-polyester	48	1.59 (190)	36	3800 (26.2)	5000 (34.47)	200
Sancure 12929	aliphatic-polyester	40	2.20 (263)	2	220 (1.52)	2300 (15.86)	550
Sancure 20037	aliphatic-polyester	38	0.50 (63)	30	NA	2700 (18.60)	75
PRODUCT	TYPE	% SOLIDS	(MFFT) °C	KONIG HARDNESS (NOTE 1)	WEIGHT PER GALLON, 25°C	FREEZE THAW STABILITY	
<b>CARBOSET® WATERBORNE ACRYLIC EMULSIONS</b>							
Carboset PC-21	Styrene Acrylic Copolymer	42	55	72P	8.6	Protect	
Carboset CR-763	Styrene Acrylic Copolymer	42	55	72P	8.6	Protect	
Carboset CR-781	Self Crosslinking Acrylic Copolymer	42	90	66P	8.9	Protect	
Carboset CR-785	Styrene Acrylic Copolymer	42	44	42P	8.6	Protect	
Carboset PL-958	Acrylic Copolymer	47	<10	16P	8.9	Protect	

Notes: 1. Konig Hardness on formulated coating: P = Pigmented

For more information on Lubrizol's line of waterborne acrylic copolymers and polyurethanes visit our web site at [www.lubrizolcoatings.com](http://www.lubrizolcoatings.com)



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