

Waterborne Polyurethane Resins for Coatings, Adhesives and Sealants

Polyurethane Dispersions

Product Selector



Solvent-Free Waterborne Polyurethane Dispersions*

* Formulated product resin is freeze-thaw stable

Products	Product	Description	Viscosity ASTM D2369	Solids ASTM D2196	VOC Lbs./ Gal. (grams/liter) ASTM D3960	Weight/Gal. ASTM D1475	Co-Solvent % NMP	pH ASTM D1293	Heat Age ASTM D1475 (125o F 28 days)	Freeze-Thaw ASTM D2243 (0oF 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60° ASTM D523
	SF 18™	Solvent-free, aliphatic, self-cross-linking	25-400 cP	35%-38%	<0.42 (<50)	8.65-8.75	≤ 0%	8.65-8.75	Pass*	Pass	25	3400	185%	90
	SF 26™	Solvent-free, aliphatic, hard, excellent chemical resistance	25-500 cP	35%-38%	<0.42 (<50)	8.65-8.75	≤ 0%	8.65-8.75	Pass*	Pass	35	2700	70%	90
	SF 5000™	Solvent-free, aliphatic, dispersion OH functional, crosslink with isocyanate curative provides superior properties to aziridine cross-linked systems	10-200 cP	38%-40%	<0.42 (<50)	7.0-8.50	≤ 0%	8.60-9.0	Pass*	Pass	45	3500	150%	85

Applications	Wood Coatings				Plastic Coatings				Specialty Applications				
	Product	DIY Varnish	Professional Floor Finishes	Sports Flooring	Stain & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives	Binders
	SF 18™	X	X	X	X	X	X	X	X	X	X	X	X
	SF 26™	X	X	X	X	X			X				
	SF5000™		X	X		X				X			

NMP Free Waterborne Polyurethane Dispersions

Properties	Product	Description	Viscosity ASTM D2369	Solids ASTM D2196	VOC Lbs./ Gal. (grams/liter) ASTM D3960	Weight/Gal. ASTM D1475	Co-Solvent % NMP	pH ASTM D1293	Heat Age ASTM D1475 (125o F 28 days)	Freeze-Thaw ASTM D2243 (0oF 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60° ASTM D523
	QW200™	TEA FREE, NMP Free, aliphatic self crosslinking dispersion with excellent chemical resistance	25-450 cP	33%-36%	2.49 (290)	8.65-8.85	≤10%	7.0-8.50	Pass	Pass	25	4000	350%	92

Applications	Wood Coatings				Plastic Coatings				Specialty Applications				
	Product	DIY Varnish	Professional Floor Finishes	Sports Flooring	Stain & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives	Binders
	QW200™	X	X	X	X	X	X	X	X	X	X	X	X

Waterborne Polyurethane Dispersions

Properties	Product	Description	Viscosity ASTM D2369	Solids ASTM D2196	VOC Lbs./ Gal. (grams/liter) ASTM D3960	Weight/Gal. ASTM D1475	Co-Solvent % NMP	pH ASTM D1293	Heat Age ASTM D1475 (125o F 28 days)	Freeze-Thaw ASTM D2243 (0oF 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60° ASTM D523
	QW18-1™	Aliphatic, self-cross-linking, good chemical resistance	25-350 cP	34%-36%	2.49 (297)	8.65-8.85	≤10%	7.0-8.50	Pass	Pass	25	5000	360%	93
	QW26™	Aliphatic, hard coating, excellent chemical resistance	40-500 cP	36%-38%	1.51 (182)	8.75-8.85	≤ 5%	7.0-8.50	Pass	Pass	40	6000	250%	93
	QW28™	Aliphatic soft, tough, good adhesion to nylon	25-500 cP	36%-38%	2.21 (271)	8.75-8.55	≤10%	7.0-8.50	Pass	Pass	10	5000	600%	90
	QW40™	Aliphatic, high solids versatile polymer	25-250 cP	39%-41%	1.61 (193)	7.0-8.50	≤ 7%	7.0-8.50	Pass	Pass	30	7300	360%	94
	QW93™	Aliphatic, excellent chemical resistance and adhesion to plastics	25-250 cP	32%-34%	2.64 (317)	8.75-8.55	≤10%	7.0-8.50	Pass	Pass	25	3600	200%	92

Applications	Wood Coatings				Plastic Coatings				Specialty Applications				
	Product	DIY Varnish	Professional Floor Finishes	Sports Flooring	Stain & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives	Binders
	QW 18-1™	X		X	X	X	X	X	X			X	
	QW 26™	X	X	X		X	X		X				
	QW 28™										X	X	X
	QW 40™	X	X	X		X	X	X	X			X	
	QW 93™	X	X	X		X	X	X	X		X	X	

Chase Polymers are water-based polyurethane dispersions that are environmentally responsible and highly durable.

The versatility and durability of Chase environmentally friendly water-based polyurethane dispersions and our ability in the polymerization of solvent-free polyurethane dispersions make us a leading partner in the industry throughout the world for “green” products.

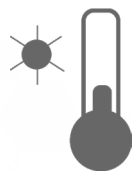
Features & Benefits



Abrasion resistant



Impact resistant



Low-Temperature
Flexibility

Applications

- Wood
- Plastic
- Specialty Coatings

Product Family

- Solvent-Free Waterborne
- NMP Free Waterborne
- Waterborne Polyurethane Dispersions



For more Information



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