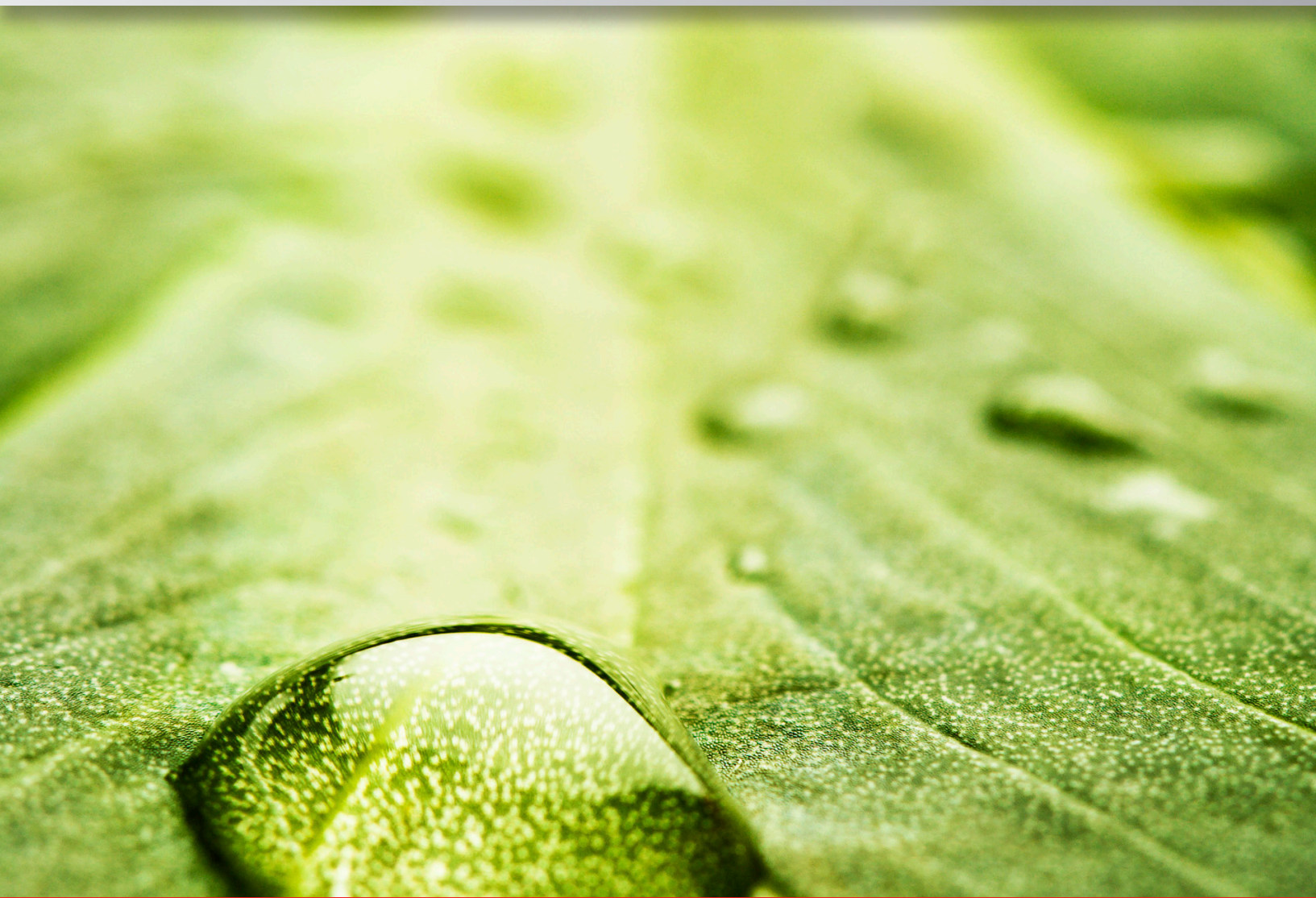


# Waterborne Polyurethane Resins for Coatings, Adhesives and Sealants



Excellence is our Passion

## Solvent-Free Waterborne Polyurethane Dispersions\*

\* Formulated product resin is not freeze-thaw stable

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	Freeze-Thaw ASTM D1475 (125°F 28 days)	Heat Age ASTM D2243 (0°F 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60°F ASTM D523
		QW77™	Aliphatic, soft polymer binder with good adhesion to films and plastics	10-50 cP	35%-37%	<0.42 (50)	7.0-8.0	≤ 0%	7.0-8.0	Pass	Pass	12	4700	435%
	SF18™	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
	SF26™	Solvent-free, aliphatic, hard, excellent chemical resistance	200-500 cP	35%-38%	<0.42 (<50)	8.65-8.75	≤ 0%	8.65-8.75	Pass*	Pass	35	2700	70%	90
	SF5000™	Solvent-free, aliphatic, dispersion OH functional crosslink with isocyanate curative provides superior properties to aziridene 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	Stains & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives
	QW77™						X			X	X	X
	SF18™	X	X	X	X	X	X	X	X	X	X	X
	SF26™	X	X	X	X	X		X				
	SF5000™		X	X		X			X			

## NMP Free Waterborne Polyurethane Dispersions

Properties	Product	Description	Viscosity ASTM D2369	Solids ASTMD2196	VOC Lbs./Gal. (grams/liter) ASTM D3960	Weight/Gal. ASTM D1475	Co-Solvent % NEP	PH ASTM D1293	Freeze-Thaw ASTM D1475 (125°F 28 days)	Heat Age ASTM D2243 (0°F 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60°F ASTM D523
		QW95™	NMP-free aliphatic, excellent adhesion to plastic, good chemical resistance	25-500 cP	30%-33%	2.88 (345)	8.70-8.85	≤10%	7.0-8.50	Pass	Pass	28	3500	200%
	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	Stains & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives
	QW95™	X	X	X		X	X	X	X		X	X
	QW200™	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	Freeze-Thaw ASTM D1475 (125°F 28 days)	Heat Age ASTM D2243 (0°F 5 cycles)	Sward Hardness ASTM D2134	Tensile (psi) ASTM D412	Elongation ASTM D412	Gloss @ 60°F 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%
	QW26™	Aliphatic, hard coating, excellent chemical resistance	40-500 cP	36%-38%	1.52 (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)	8.75-8.85	≤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	25-550 cP	32%-34%	2.64 (317)	8.75-8.85	≤10%	7.0-8.50	Pass	Pass	25	3600	200%	92
	QW100™	Aliphatic, self-cross-linking, hard resin for floor coatings	25-500 cP	36%-38%	2.06 (248)	8.70-8.90	≤10%	7.0-8.50	Pass	Pass	50	5500	165%	90

Applications	Wood Coatings					Plastic Coatings			Specialty Applications			
	Product	DIY Varnish	Professional Floor Finishes	Sports Flooring	Stains & Sealers	Wood Components	Vinyl Rigid	Vinyl Flexible	Automotive Components	Floor Polish	Adhesives & Sealants	Flexible Film Adhesives
	QW18-1™	X		X	X	X	X	X			X	
	QW26™	X	X	X		X		X				
	QW28™						X	X		X	X	X
	QW40™	X	X	X		X	X	X			X	
	QW93™	X	X	X		X	X	X		X	X	
	QW100™	X	X	X		X		X				

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