



Mallard Creek Polymers



Coatings Application Guide



Your Polymer Partner

Mallard Creek Polymers is a world-class manufacturer of specialty polymer latex emulsion products. With appropriate formulation, our latex polymers build strong, continuous films that provide excellent moisture vapor barrier properties, low water absorption rates, application at low temperatures, and adhesion to a variety of substrates.



A HISTORY OF INNOVATION

Paints and coatings are used to protect substrates and provide required performance characteristics. Meeting these requirements requires formulating with sophisticated polymers optimized for the specific application.

Rovene® and BarrierPro® polymer emulsions from Mallard Creek are designed for use in high-performance coatings. These products ensure outstanding performance in such applications as waterproofing, concrete coatings and sealers, running track, and elastomeric roof coatings.

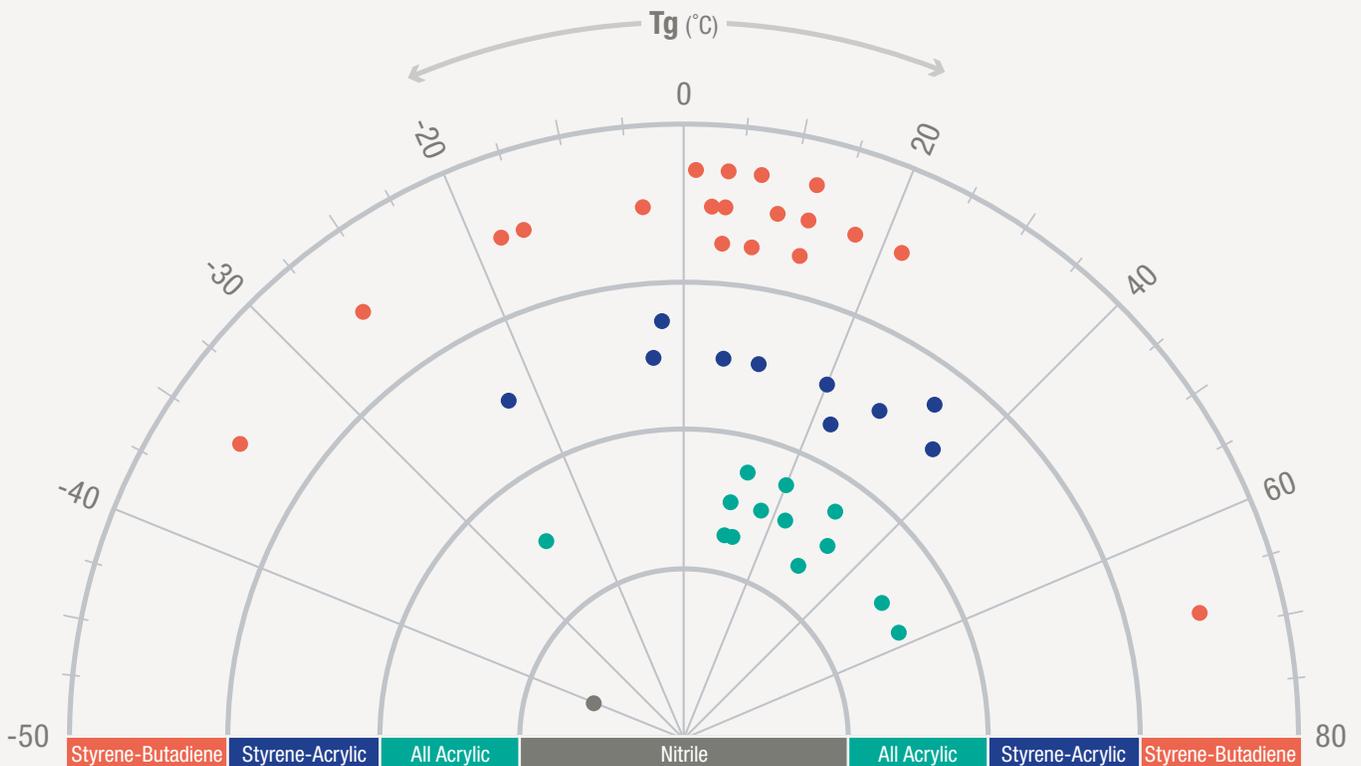
A COMMITMENT TO COLLABORATION

At the same time, our water-borne emulsions can be customized further depending on your unique needs and requirements. We will work with you to define the right chemistry for your application. We can use different additives and monomers to build custom solutions that exhibit specific properties.



GLASS TRANSITION TEMPERATURE

At Mallard Creek Polymers, we rely on Tg to understand how a polymer will perform at the range of temperatures to which it will be exposed. The polymer emulsion should be selected after considering the Tg and specific performance requirements. Our specialists will work with you to understand your needs and determine how to best build a product of superior performance.



Coating Product Guide

Based on your unique performance requirements, we will work with you to define the right chemistry and identify the right product for your application. We offer a diverse line of products for coatings and seek to customize a new grade specific for your use. In this guide, you will find a comprehensive product list, product application details and common uses, and important product specs.

STYRENE - BUTADIENE

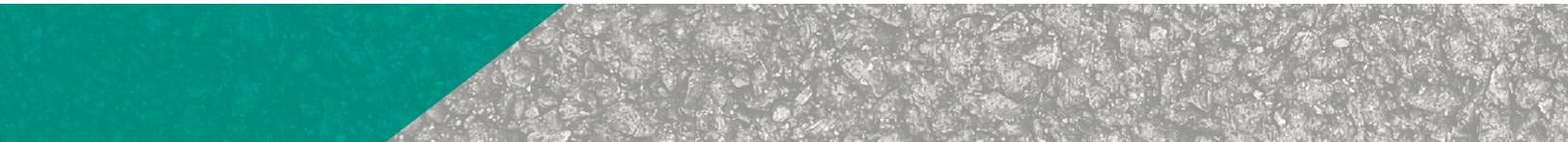
Product Name	Emulsion Properties				APEO Free	Applications						
	Tg (°C)	MFFT (°C)	Solids (%)	pH		1K Membranes	Low MVTR Primers	Underbody Coatings	OSB Edge Seal	Metal Coatings	Concrete Coatings	Temporary Protective/Peelable
BarrierPro 4556	-35	—	50.75	7.5	●	●						
BarrierPro 4553	-26	—	53.0	8.75	●	●						
BarrierPro 4555	-17	—	51.0	9.5	●	●				●	●	
Tylac 4193	-15	—	51.5	9.5								
Rovene 4009	-4	4.2	54.0	7.3	●		●					
BarrierPro 4550	1	10	50.0	9.5	●	●					●	
Tylac 4190	3	12	51.5	11.0								
Rovene 4002	4	14	50.3	8.3	●		●		●			
Rovene 4076	4	12	50.3	9.0	●		●					
Rovene 4170	4	12	50.3	9.0	●							●
BarrierPro 4551	7	8	53.5	9.0	●	●					●	
BarrierPro 4554	7	9	53.5	9.5	●	●						
Rovene 4012	9	8	50.0	8.25	●	●		●		●	●	
BarrierPro 4545	12	8	52.0	8.1	●	●		●	●	●	●	
Rovene 4180	12	17	55.0	7.3	●			●		●		
Rovene 4546	12	7	52.0	8.3	●				●	●		
Rovene 4541	17	17	51.0	8.5	●					●		
Rovene 4021	22	21	50.0	8.9	●			●		●		
Rovene 4106	69	53	50.0	8.8	●							



Cement Compatible	Substrates						Description & Applications
	Wood	Concrete	Asphalt	EPDM	Metal	Plastics	
		•	•	•	•	•	Provides maximum flexibility at low temperatures with good water resistance
		•	•	•	•	•	Provides maximum flexibility at low temperatures with good water resistance
		•	•	•	•	•	Excellent water resistance, flexibility at low temperatures, built to disperse pigments, and low permeability; 1K membrane systems
•		•	•	•	•	•	A soft, flexible styrene-butadiene concrete modifier. Increased flexibility, adhesion, and water/ion resistance to cementitious systems
							Low permeability in thin film applications; MVTR primers
		•	•		•		Excellent water resistance, built to disperse pigments, low permeability, low odor; 1K membrane systems
•		•	•		•		Improved adhesion, water resistance, flexural strength, and resistance to freezing and thawing; reduced water-cement ratios
	•						Provides a tough film and low permeability in thin film applications; MVTR primers
				•			Provide low permeability in thin films, for use on multiple substrates; MVTR primers
	•	•	•	•	•		Workhorse, offers unique performance in multiple applications
		•	•		•		Excellent water resistance and strength, built to disperse pigments and low permeability; 1K membrane systems
		•	•	•	•	•	Excellent strength properties with flexibility, superior water resistance, and excellent adhesion to multiple substrates for coatings and construction applications
		•			•		Excellent strength properties, flexibility, superior water resistance, excellent adhesion to multiple substrates; clear or pigmented systems for construction and metal coatings
	•	•			•		Workhorse for thin & thick film applications over multiple substrates; 1K membrane systems, OSB and edge seal, concrete primers, metal coatings
	•			•	•		Provides the ability to compound at high filler loading; metal and landscaping coatings
	•				•		General purpose with excellent water resistance; metal coatings, OSB/edge seal and primers
					•		Water resistance with a capacity to accept high filler loading, block resistance, and adhesion to multiple substrates including wood and metal
					•		Built to disperse pigments and provides adhesion; metal coatings
	•						Hard films with excellent water resistance; blend vehicle for block resistance

Coating Product Guide Continued

	Product Name	Emulsion Properties				APEO Free	Applications						
		Tg (°C)	MFFT (°C)	Solids (%)	pH		1K Membranes	General Coatings	Elastomeric Coatings	Metal Coatings	Concrete Coatings	Temporary Protective/Peelable	Cement Compatible
STYRENE-ACRYLIC	Rovene 6119	-24	—	52.0	9.0	●			●		●		
	Rovene 6124	-4	—	50.5	9.3	●			●		●		
	Rovene 6121	-3	0	51.5	9.0	●			●		●		
	Rovene 6069	5	0	44.5	7.5	●		●					
	Rovene 6133	10	12	50.0	7.5			●					
	Rovene 6026	20	16	49.0	8.5	●				●			
	Rovene 6034	23	15	51.0	8.5	●				●			
	Rovene 6018	27	21	51.0	7.8	●		●		●			
	Ecronova 6607	33	35	51.0	8.3	●		●					
	Rovene 6070	36	—	44.5	7.5	●		●					
ALL ACRYLIC	Rovene 6120	-26	—	54.5	9.0	●			●		●		
	Ecronova 6631	10	10	41.5	7.25	●	●	●					
	Rovene 6027	10	11	50.5	8.5	●		●					
	Rovene 403	12	20	46.5	8.0								●
	Rovene 6523	12	17	47.0	6.7			●					
	Rovene 6023	17	16	47.0	9.5								●
	Rovene 6035	20	3	47.5	8.5	●					●		
	Ecronova 6608	23	10	43.0	8.0	●				●	●		
	Rovene 6116	30	26	48.0	7.0	●		●					
	Rovene 6117	30	26	48.0	7.0	●				●	●	●	
	Ecronova 6620	33	23	50.0	8.5	●				●			
	Rovene 6127	50	45	48.5	8.3	●		●			●		
	Ecronova 6630	57	51	41.0	7.0	●				●			
	NITRILE	Tylac 873	-40	—	43.3	8.4	●						●





Substrates						Description & Applications
Wood	Concrete	Asphalt	EPDM	Metal	Plastics	
	•	•	•	•		Provides flexibility at low temperatures and water resistance; Elastomeric roof coatings
	•	•	•	•		Offers a balance of strength and flexibility, excellent water resistance, maintains tensile strength when compounded with fillers
	•	•	•	•		Provides flexibility and strength, water resistance; Elastomeric Roof Coatings
•						Excellent block resistance, stability with wax containing systems, and adhesion with minimal water absorption; OEM primers and coatings
						Exhibits excellent water resistance, strength, and adhesion to multiple substrates
•			•	•		Ideal for a variety of interior/exterior applications; metal and landscaping coatings
•			•	•		General use latex for multiple paint and coating applications for interior paints, outdoor landscape coatings, or coatings for metal
•	•			•		Excellent wet and dry adhesion to inorganic surfaces, outstanding filler loading capacity, excellent stability in highly filled systems, silanated with enhanced adhesion
						Features good adhesion, block resistance, hardness, water and alkali resistance
•						Good chemical and blocking resistance, high hardness and scratch resistance, good wetting of substrates within industrial coatings. Emulsion is OH-functional and can function both as a one or two component system.
	•	•	•	•		Provides good adhesion to substrates, balance of strength and flexibility, excellent water resistance, ASTM 6083, Type 1
•						Ambient cure, high hardness and scratch resistance as well as good wetting of wood substrates; interior wood coatings
•	•			•		General use latex with improved water resistance
•	•			•		Low odor and interior formulations with cement
•	•			•		General use latex designed for interior/exterior applications, low odor/ammonia free, excellent water resistance
•	•			•		Exterior topcoat, EIFS and Stucco systems
•						Excellent water resistance; superior crack bridging and flexibility
	•			•	•	Ambient cure, offers a low MFFT with a very hard film, excellent block and alkaline resistance
•						Efflorescence resistant, good durability, resistance to blushing, excellent resistance to a variety of chemicals, highly water resistant, very good adhesion, protects against water penetration, non-yellowing
•	•					Excellent efflorescence, water, and chemical resistance; clear concrete coatings, peelable coatings
•				•		Ambient cure, adhesion to multiple substrates; metal coatings
	•					Efflorescence resistance, excellent durability, excellent resistance to a variety of chemicals, highly water resistant, protects against water penetration, non-yellowing, hot tire pick up resistance.
•				•		Ambient cure, high hardness and scratch resistance as well as good wetting of wood substrates; interior wood coatings
		•		•		Resistance to oil, grease, and solvents, compatible with anionic asphalt emulsions, excellent strength, and without tack. For use in asphalt sealers and as a blend vehicle.





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