

Eastman ADVANTEX™

neutralizing amine additive

Neutralizing amines. Enhancing paint performance.

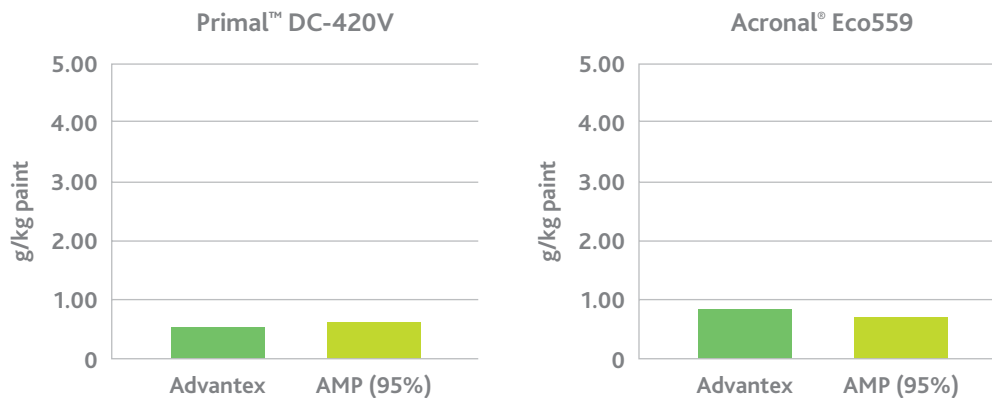
Eastman is committed to delivering innovation and solutions for coatings applications. For more than 90 years, we have been a leading provider of high quality raw materials for the global paint and coatings industry. Our comprehensive portfolio for the coatings industry includes neutralizing amine products. Paint formulators use neutralizing amine additives to adjust the pH of the paint. In addition, these additives function as beneficial supplementary pigment dispersants that enhance tint strength, grind stability, and overall paint performance.

Eastman Advantex™ neutralizing amine additive

Advantex is a high-efficiency multifunctional neutralizing amine that enables a variety of benefits to architectural coatings. It enhances performance through superb pigment dispersion, emulsion stability, and syneresis control.

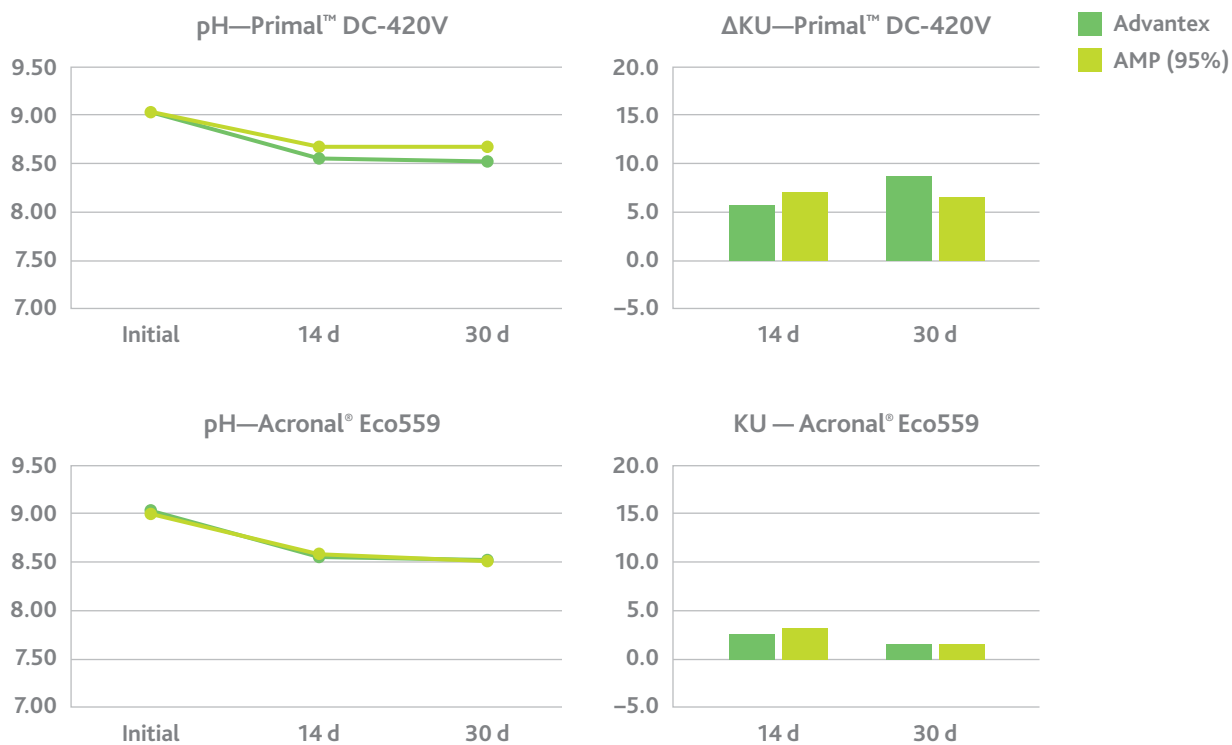
Neutralizing efficiency

Advantex offers good compatibility in different types of latex paints, while allowing equal to less demand to achieve the same pH target when comparing with other amines in market.



Paint stability—pH and viscosity

Advantex showed equal performance with a leading competitive amine, when used as a neutralizing agent in a paint system containing Acronal® Eco599. When compared to a competitive amine, both the viscosity, measured in KU, and pH, drifting less than 0.5 unit, performed equally during the test duration.



Appendix I. Typical physical properties of Eastman Advantex

Properties	Typical value, units
Appearance	A colorless to light yellow liquid
Boiling point	197.7°C
Vapor pressure @ 20°C	0.1394 hPa
Density	0.89 g/cm ³ @ 20°C
Water solubility	Miscible
Molecular weight	117.2 g/mol
Dissociation constant, pKa	9.7
Octanol-water partition coefficient, log Pow	0.64

Appendix II. Starting formulations

Formulation-I: Primal™ DC-420V (50% PVC)			
Material	Type	Supplier	Grams
Grind			
DI-Water	Water	—	150.00
Natrosol™ 250 HBR	Thickener	Ashland	2.50
Propylene glycol	Solvent	Local	0.00
Orotan™ 731A	Dispersant	Dow	9.00
Kathon™ LXE	Biocide	Dow	2.00
Triton™ EF-106	Surfactant	Dow	2.00
Dispelair™ CF-246	Defoamer	Blackburn	2.00
Rocima™ 361	Biocide	Dow	3.00
Ti-Pure™ R-706	Pigment	DuPont	180.00
CC-700	Extender	Local	105.00
Kaolin DB-80	Extender	Local	60.00
Grind subtotal			515.50
Letdown			
Primal™ DC-420V	Binder	Dow	300.00
Ropaque™ Ultra E	Opaque polymer	Dow	60.00
Optifilm™ enhancer 400	Coalescent	Eastman	30.20
Dispelair™ CF-246	Defoamer	Blackburn	1.00
Acrysol™ RM-2020 NPR	Thickener	Dow	6.00
Acrysol™ TT-935	Thickener	Dow	0.00
Mill base subtotal			912.70
Sample adjustment			
Advantex™	Neutralizing aid	Eastman	Adjust pH = 9.0
AMP (95%)	Neutralizing aid	—	
DI-Water	Water	—	Adjust
Total			1000.00

Formulation-II: Acronal® Eco559 (50% PVC)			
Material	Type	Supplier	Grams
Grind			
DI-Water	Water	—	150.00
Natrosol™ 250 HBR	Thickener	Ashland	2.50
Propylene glycol	Solvent	Local	0.00
Orotan™ 731A	Dispersant	Dow	9.00
Kathon™ LXE	Biocide	Dow	2.00
Triton™ EF-106	Surfactant	Dow	2.00
Dispclair™ CF-246	Defoamer	Blackburn	2.00
Rocima™ 361	Biocide	Dow	3.00
Ti-Pure™ R-706	Pigment	DuPont	180.00
CC-700	Extender	Local	105.00
Kaolin DB-80	Extender	Local	60.00
Grind subtotal			515.50
Letdown			
Acronal® Eco559	Binder	BASF	288.00
Ropaque™ Ultra E	Opaque polymer	Dow	60.00
Optifilm™ enhancer 400	Coalescent	Eastman	5.00
Dispclair™ CF-246	Defoamer	Blackburn	1.00
Acrysol™ RM-2020 NPR	Thickener	Dow	6.00
Acrysol™ TT-935	Thickener	Dow	6.00
Millbase subtotal			881.50
Sample adjustment			
Advantex™	Neutralizing aid	Eastman	Adjust pH = 9.0
AMP (95%)	Neutralizing aid	—	
DI-Water	Water	—	Adjust
Total			1000.00



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