

## Eastman ADVANTEX®

neutralizing amine additive

# Neutralizing amines. Enhancing paint performance.

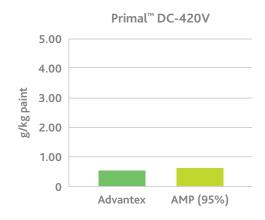
Eastman is committed to delivering innovation and solutions for coatings applications. For more than 90 years, we have been a leading provider of high quality raw materials for the global paint and coatings industry. Our comprehensive portfolio for the coatings industry includes neutralizing amine products. 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.

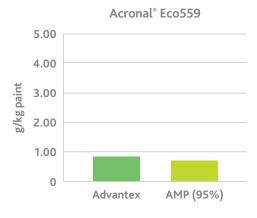
#### Eastman Advantex™ neutralizing amine additive

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**

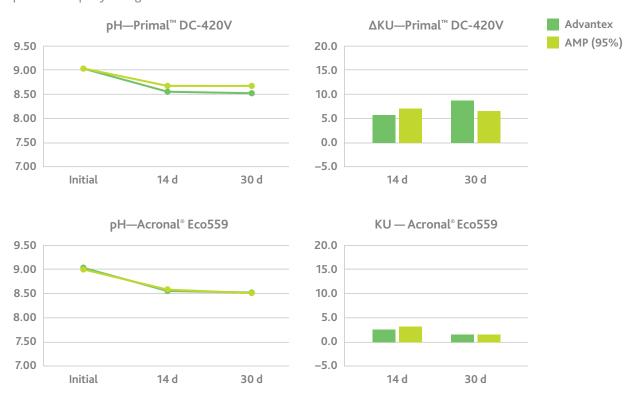
Advantex offers good compatibility in different types of latex paints, while allowing equal to less demand to achieve the same pH target when comparing with other amines in market.





### 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 <sup>3</sup> @ 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	Туре	Supplier	Grams		
Grind					
DI-Water	Water	_	150.00		
Natrosol™ 250 HBR	Thickener	Ashland	2.50		
Propylene glycol	Solvent	Local	0.00		
Orotan <sup>™</sup> 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					
$Advantex^{\scriptscriptstyleTM}$	Neutralizing aid	Eastman	Adjust		
AMP (95%)	Neutralizing aid	_	pH = 9.0		
DI-Water	Water		Adjust		
Total			1000.00		

Formulation-II: Acronal®	Eco559 (50% PVC)	)	
Material	Туре	Supplier	Grams
Grind			
DI-Water	Water	_	150.00
Natrosol™ 250 HBR	Thickener	Ashland	2.50
Propylene glycol	Solvent	Local	0.00
Orotan <sup>™</sup> 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 <sup>™</sup> 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 <sup>™</sup> enhancer 400	Coalescent	Eastman	5.00
Dispelair™ 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		



The results of insight

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