

EPS® 2559

Technical Data Sheet

Versatile Polymer for:

Waterproofing Paints
Cementitious Substrates
DTM Primers/Topcoats
Mastics

BENEFITS

Early water and humidity resistance

Block, mar and print resistance

Good corrosion resistance

Adhesion to concrete and masonry substrates

No APEO containing raw materials

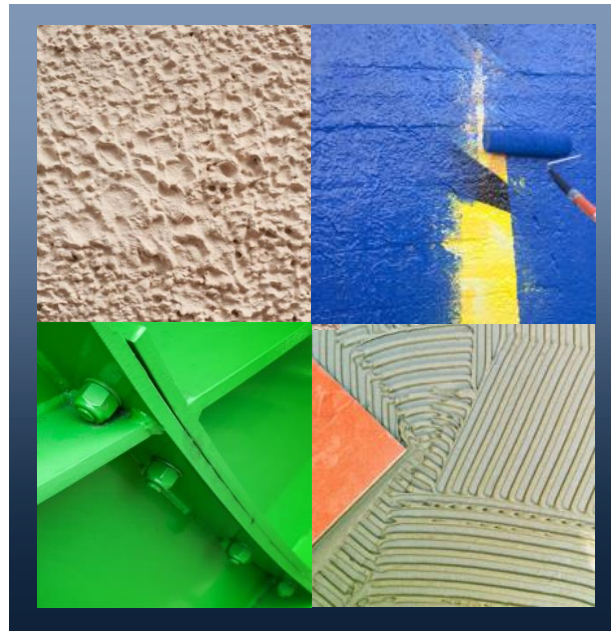
Compatible with water reducible alkyds

MARKET SEGMENTS

Architectural
Industrial
Construction

CHEMISTRY

Styrenated Acrylic Polymer



EPS 2559 is a styrenated acrylic emulsion with excellent early water and humidity resistance. The early hydrophobic properties of EPS 2559 make it an excellent choice for high performance waterproofing paints on cementitious substrates and for use in tile mastics.

Due to these properties and the excellent adhesion to a variety of ferrous and non-ferrous substrates (including various plastics), EPS 2559 is also an excellent choice for both DTM primers and topcoats. It can be formulated with a variety of co-solvents to provide an optimum balance of application and drying properties.

Specifications

Weight Solids	50.0 +/- 0.7%
Weight/Gallon	8.7 +/- 0.1
pH	7.0 - 8.0

Typical Properties

Volume Solids	47.8 +/- 0.7%
MFFT	44° C
Volatile(s)	Water (49.77%) Ammonia (0.23%)

Suggested Coalescing Solvent(s)

(% Solvent on Binder Solids – Pass 40° F LTC Test)

Texanol or EPS 9147	20%
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Suggested Formulations

EPS 2559 WHT1 - White Masonry Waterproofing
EPS 2559 WHT ST1 - White High Gloss Enamel
EPS 2559 BLK SG1 - Black Semi Gloss Dip
EPS 2559 TM-P – Premium Tile Mastic

Excellent balance of properties.

Performance properties include:

- Excellent early water and humidity resistance
- Excellent block, mar, and print resistance
- High gloss and good corrosion resistance
- Excellent adhesion to concrete and masonry substrates
- Passes ASTM D 7088-04: Resistance to hydrostatic pressure for coatings used in below grade applications applied to masonry
- No APEO containing raw materials
- Compatible with water reducible alkyds

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TECHNICAL SUPPORT

The following guidelines are offered to assist the paint formulator in achieving the high performance properties offered by EPS 2559

MSDS

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Fax 1-815-568-4145

Technical Service: 1-800-601-8111

Suggested Formulation

Formula: EPS 2559 WH1 (03/16)				
White Masonry Waterproofing				
Pounds	Gallons	Raw Material	Supplier	Instructions
150.8	18.10	Water		Add under agitation and high speed disperse to 5 to 6 Hegman
15.0	1.70	Tamol 2001	Dow	
2.0	0.28	Surfynol 104A	Air Products	
3.0	0.35	BYK 024	BYK	
4.0	0.51	AMP-95	Angus	
150.0	4.38	R 902	Chemours	
250.0	11.50	Minex 7	Unimin	
15.0	0.32	Zoco 103	Zochem	
469.8	54.00	EPS 2559	EPS	Add to grind paste under agitation
3.0	0.33	Nuosept 498	Ashland	
13.0	1.64	Texanol	Eastman	
10.0	1.20	Sodium Nitrite 4%		
5.0	0.55	Fungitrol 920	Ashland	
34.0	3.89	EPS 9147	EPS	
1.0	0.12	Optiflo H600	BYK	Use to adjust viscosity
10.0	1.15	Optiflo L100	BYK	
1135.6	100.00	Totals		

Formulation Parameters	
Weight Solids	61.31%
Volume Solids	46.97%
Pigment Weight	36.50%
Pigment Volume Conc.	38.86%
Pigment/Binder	1.77
VOC Level	45 g/L
Weight/Gallon	11.38 lb/gal

Typical Properties	
Viscosity	110 – 120 KU
pH	8.0 – 9.0
Color	White

Suggested Application Method
Brush and Roll

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Suggested Formulation

Formula: EPS 2559 WHT ST1 (03/16) White High Gloss Spray Enamel				
Pounds	Gallons	Raw Material	Supplier	Instructions
69.75	8.37	Water		
11.46	1.26	Tamol 681	Dow	Add in order with good agitation
3.99	0.55	Surfynol 104A	Air Products	
5.98	0.72	BYK 022	BYK	
1.0	0.13	AMP-95	Angus	
199.28	5.84	TriPure R-706	Chemours	Grind at high speed to 6+ Hegman
520.14	59.79	EPS 2559	EPS	Letdown in order with good agitation
1.99	0.27	28% Ammonium Hydroxide		
115.18	13.83	Water		Premix and add with agitation
9.96	1.19	4% Sodium Nitrite Solution		
52.01	6.86	DPnB	Dow	
9.96	1.09	Acrysol RM-2020NPR	Dow	
1.00	0.11	Acrysol RM-8W	Dow	
1001.70	100.00	Totals		

Formulation Properties	
Weight Solids	47.30%
Volume Solids	36.11%
Pigment Volume Conc.	16.90%
Pigment / Binder	0.77
VOC Level	157 g/L 1.31 lb/gal
Weight/Gallon	10.02 lb/gal

Typical Properties	
Viscosity	70 – 80 KU
pH	8.0 – 9.0
Gloss at 60° (@ 1.15 mils)	85°

Suggested Application Method
Spray (Conventional, Airless, or Air-Assist)

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Suggested Formulation

Formula: EPS 2559 BLK SG1 (03/16) Semi Gloss Black Dip				
Pounds	Gallons	Raw Material	Supplier	Instructions
450.0	51.72	EPS 2559	EPS	Add in order with good agitation – mix 5 min
40.0	3.92	NovoColor IP 8594 Black	CCA	
278.2	33.39	Water		Add separately with good agitation
10.0	1.20	4% Sodium Nitrite Solution		
56.3	7.50	Butyl Cellosolve (EB)	Dow	
3.0	0.40	Ammonium Hydroxide		
4.0	0.48	BYK 346	BYK	
3.0	0.39	Drewplus L-475	Ashland	
4.0	0.45	Rheolate 1	Elementis	
10.0	0.55	Fuji Sylsya 350	Fuji	Add with agitation - mix 30 min.
858.5	100.00	Totals		

Formulation Properties

Weight Solids	30.53%
Volume Solids	27.70%
Pigment Volume Conc.	5.97%
Pigment / Binder	0.11
VOC Level	192 g/L 1.60 lb/gal
Weight/Gallon	8.58 lb/gal

Typical Properties

Viscosity (#3 Zahn Cup)	18 – 22 Sec
pH	8.0 – 9.0
Gloss at 60° (@ .7 mil)	28°

Suggested Application Method

Dip, Spray

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Suggested Formulation

Formula: EPS 2559 TM-P (03/16) Premium Tile Mastic				
Pounds	Gallons	Raw Material	Supplier	Instructions
246.20	28.30	EPS 2559	EPS	Add in order with good agitation
34.16	4.18	Water		
12.74	1.40	Triton X-405	Dow	
0.22	0.03	BYK 024	BYK	
649.00	28.76	Duramite	Imerys	
22.15	1.12	Attagel 50	BASF	Add and mix until smooth
171.44	19.71	EPS 2559	EPS	Let down in order with good agitation
81.57	9.78	Water		
0.00	0.00	Ammonium Hydroxide		Adjust to pH 8.5
1.27	0.15	Nuosept 498	Ashland	
18.83	2.90	Odorless Mineral Spirits		
16.61	1.78	Ethylene Glycol		
16.61	1.89	ASE-60	Dow	Use to adjust viscosity
1270.80	100.00	Totals		

Formulation Properties	
Weight Solids	70.19%
Volume Solids	54.21%
Pigment / Binder	3.2:1
VOC Level	72 g/L 0.60 lb/gal
Weight/Gallon	12.71 lb/gal

Typical Properties	
Viscosity	4 MMcP
pH	7.5 – 8.5
Color	Off-white