

# EPS<sup>®</sup> 2223

## STYRENATED ACRYLIC EMULSION

# DATA SHEET

### Description

EPS 2223 is a styrenated acrylic emulsion offering excellent alkali and water resistance, dirt pick-up resistance and flexibility for use on cementitious, wood, and metal substrates. When properly formulated, EPS 2223 can be used in sloped roof formulations.

- ✓ Ideal for use in sloped roof formulations
- ✓ Excellent early water resistance and alkali resistance
- ✓ Ideal for use on 'hot' cementitious substrates
- ✓ Excellent flexibility
- ✓ Low VOC formulations – no coalescing solvent needed
- ✓ Excellent dirt pick up resistance

### Specifications

Weight Solids: 50.0 ± 0.7%  
Weight/Gallon: 8.60 ± 0.10  
pH: 8.0 – 9.0

### Application Properties

Tensile Strength (ASTM D412) 260 psi  
Elongation (ASTM D412) 1200 %

### Typical Properties

Volume Solids: 48.4 ± 0.7%  
T<sub>g</sub>: -15°C  
Viscosity (#2 @ 100 rpm): 1500 ± 500 cP

### Suggested Formulations

EPS 2223 SR1 – Sloped Roof Formulation

05-08-2014

**Questions? Call EPS Technical Service @ 1-800-601-8111**

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## SUGGESTED FORMULATION

FORMULA: EPS 2223 SR1 (06/11)

### SLOPED ROOF FORMULATION

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>	
126.01	15.13	Water		Add items in order, then mix on high speed until dispersed	
6.00	0.60	Tamol 851	Dow		
1.50	0.07	KTPP	Parchem		
2.50	0.33	Foamaster S	BASF		
27.50	0.54	Kadox 915 Zinc Oxide	HorseHead Corporation		
290.03	12.41	Duramite	Imerys		
110.01	5.75	Minex 4	Unimin		
77.51	2.25	R-960	DuPont		
					Letdown: Add the following in order under agitation
500.05	58.15	EPS 2223	EPS		
2.50	0.33	Foamaster S	BASF		
2.00	0.23	Nuosept 498	Ashland		
2.00	0.52	Kathon LX 1.5%	Dow		
3.00	0.63	Texanol	Eastman		
20.50	2.49	Propylene Glycol	Eastman		
4.00	0.36	Natrosol Plus 330	Ashland		
1.50	0.20	Ammonium Hydroxide			
<b>1176.61</b>	<b>99.99</b>	<b>Totals</b>			

#### Formulation Parameters

Weight Solids	65.1 %
Volume Solids	50.5 %
Pigment/Binder	1.99 : 1
VOC	0.54 lb/gal
	65 g/L
Weight/Gallon	11.83 lb/gal

#### Typical Properties

Tensile Strength (ASTM D2370):	350 psi
Elongation (ASTM D2370):	640 %
Adhesion to Galvanized Steel (ASTM D903): (7 day cure @ RT)	11 lbs/in
Adhesion to Galvanized Steel: (7 day cure @ RT, 7 day immersion in DI water)	3.5 lbs/in
Tear Strength (ASTM D624):	11.8 lbs

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