

EPS[®] 2224

ACRYLIC EMULSION

DATA SHEET

Description

EPS 2224 is an acrylic emulsion offering excellent alkali and water resistance, dirt pick-up resistance and flexibility. It can be used in sloped roof formulations which, when properly formulated with EPS 9147 meet ASTM D6083 specifications. It is also an excellent choice for both clear and pigmented caulk and sealant formulations that meet ASTM C834 specifications.

- ✓ Ideal for use in sloped roof formulations
- ✓ Can be formulated to meet ASTM D6083 specifications
- ✓ Ideal for use in ASTM C 834 Caulks and Sealants
- ✓ Excellent flexibility
- ✓ Low VOC formulations – no coalescing solvent needed
- ✓ Excellent dirt pick up resistance

Specifications

Weight Solids: 58.0 ± 0.7%
Weight/Gallon: 8.70 ± 0.10
pH: 3.5 – 5.5

Application Properties

Tensile Strength (ASTM D412) 150 psi
Elongation (ASTM D412) 550 %

Typical Properties

Volume Solids: 56.1 ± 0.7%
T_g: -11°C
Viscosity (#2 @ 100 rpm): < 1000 cP

Suggested Formulations

EPS 2224 SR1 – Sloped Roof Formulation
 EPS 2224 WPC1 – White Pigmented Caulk

05-08-2014

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

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EPS[®] 2224

SUGGESTED FORMULATION

FORMULA: EPS 2224 SR1 (01/14)

SLOPED ROOF FORMULATION

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>	
128.31	15.40	Water		Add items in order, then mix on high speed until dispersed	
6.13	0.61	Tamol 851	Dow		
1.55	0.08	KTPP	Parchem		
2.53	0.34	Foamaster S	BASF		
27.79	0.60	Kadox 915 Zinc Oxide	HorseHead Corporation		
295.85	13.11	Duramite	Imerys		
111.96	5.15	Minex 4	Unimin		
79.27	2.38	R-960	DuPont		
406.80	46.76	EPS 2224	EPS		Letdown: Add the following in order under agitation
12.60	1.44	EPS 9147	EPS		
84.60	10.16	Water			
2.52	0.34	Foamaster S	BASF		
1.98	0.22	Nuosept 498	Ashland		
3.06	0.39	Texanol	Eastman		
21.60	2.50	Propylene Glycol	Eastman		
3.60	0.33	Natrosol Plus 330	Ashland		
3.00	0.40	Ammonium Hydroxide			
1193.15	100.21	Totals			

Formulation Parameters

Weight Solids	65.3 %
Volume Solids	50.1 %
Pigment/Binder	2.13:1
VOC	0.47 lbs/gal
	56 g/L
Weight/Gallon	11.93 lb/gal

Typical Properties

Tensile Strength (ASTM D2370):	180 psi
Elongation (ASTM D2370):	250 %
Adhesion to Galvanized Steel (ASTM D903): (7 day cure @ RT)	8 lbs/in
Adhesion to Galvanized Steel: (7 day cure @ RT, 7 day immersion in DI water)	3.5 lbs/in

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EPS[®] 2224

SUGGESTED FORMULATION

FORMULA: EPS 2224 WPC1 (06/11)

WHITE PIGMENTED CAULK

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
420.81	48.37	EPS 2224	EPS	Add items in order, then mix on high speed until dispersed
61.00	6.97	EPS 9147	EPS	
16.81	2.02	DI Water		
12.60	1.35	Ethylene Glycol	Eastman	
18.82	2.06	Triton X-405	Dow	
2.35	0.24	Tamol 851	Dow	
1.26	0.15	Kathon LX 1.5%	Dow	
0.92	0.11	Skane M8	Dow	
1.68	0.23	Foamaster NXZ	BASF	
0.67	0.08	Silquest A-187	Momentive	
5.21	0.47	Natrosol 250HBR	Ashland	
836.07	37.04	Drikalite	Imerys	
18.49	0.54	R-902	DuPont	
2.86	0.38	Ammonium Hydroxide		
1399.56	100.00	Totals		

Formulation Parameters

Typical Properties

Weight Solids	84.5%	Slump (ASTM D2202)	0.05 inches
Volume Solids	71.2%	Low Temp Flexibility (ASTM C734 Grade -18C)	No cracking
Pigment/Binder Ratio	3.4 : 1	Volume Shrink (ASTM C1241)	25.6%
VOC Level	0.20 lb/gal 23 g/L	Tack Free Time (ASTM D2377)	< 1 hour
Weight/Gallon	14.00 lb/gal		

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