

EPS[®] 6208

WATER REDUCIBLE ALKYD

DATA SHEET

Description

EPS 6208 is a short oil, water reducible alkyd. EPS 6208 is designed to provide fast dry, high gloss and excellent hydrolytic stability. EPS 6208 can be crosslinked with melamine for baking finishes or used as an air dry vehicle. EPS 6208 must be neutralized with amine before the addition of water. Additional co-solvent, such as s-Butanol, can be beneficial for solubility and stability.

Specifications

<i>Weight Solids:</i>	75.0 ± 2.0%
<i>Weight/Gallon:</i>	8.90 ± 0.10
<i>Viscosity:</i>	Z ₅ – Z ₇
<i>Acid Value*:</i>	38-44
<i>Color:</i>	8 max

Suggested Drier Package (% Metal on Resin Solids)

Cobalt	0.10
Manganese	0.10
Activ-8	1.0

Typical Properties

<i>Visc. (Reduced):</i>	N/A
<i>Solvent:</i>	25% Glycol Ether EB
<i>Oil Type:</i>	TOFA
<i>OH Value:</i>	95 ± 15
<i>Modifier:</i>	None

Suggested Formulations

EPS6208 BLK – Black Air-Dry Enamel
EPS 6208 BLK1 - Black HG Baking Enamel

*Acid value on solids

111014

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

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EPS[®] 6208

SUGGESTED FORMULATION

FORMULA: EPS 6208 BLK (01/26/97)

BLACK AIR DRY ENAMEL

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
271.7	30.53	EPS 6208	EPS	Add and premix under agitation.
4.0	0.46	R&R 551	ADM	
2.5	0.34	Nopco NDW	BASF	
23.2	3.09	Glycol Ether EB	Eastman	
4.8	0.72	S-Butanol		
13.0	1.74	Aqua ammonia 28%		Add slowly
19.1	2.54	Glycol Ether EB	Eastman	Premix and add under agitation.
2.2	0.25	12% Cobalt Drier	OMG	
2.2	0.26	12% Manganese Drier	OMG	
2.0	0.25	Activ-8	RT Vanderbilt	
0.6	0.08	Skino 2	OMG	
239.0	28.69	Water		Add the following three items under agitation . . .
66.9	6.46	2495 Lamp Black Disp	CCA	
<u>204.9</u>	<u>24.60</u>	Water	.	
856.1	100.00	Totals		

Formulation Parameters

Weight Solids	29.01%
Volume Solids	25.24%
Pigment Weight	3.54%
Pigment Volume Conc.	8.48%
Pigment/Binder	0.15
VOC Level	2.90 lb/gal (348 g/l)
Weight/Gallon	8.56

Typical Properties

Viscosity, #2 Zahn cup	42 seconds
Dry Film Thickness	0.8 mil
Pencil Hardness	@ 7 days 4B
Gloss - 60°	87
- 20°	67
pH Range	7.8 - 8.2
Dry Times @ 70°F 55% RH	
Tack Free	25 minutes
Dry Through	2 hrs. 30 min

Application Methods

Spray

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EPS[®] 6208

SUGGESTED FORMULATION

FORMULA: EPS 6208 BLK1 BLACK HIGH GLOSS BAKING ENAMEL

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
113.5	12.75	EPS 6208	EPS	Add in order with agitation.
10.0	1.33	Glycol Ether EB	Eastman	
3.0	0.34	Disperbyk 190	BYK	
4.0	0.52	Drewplus L-475	Ashland	
5.0	30.68	DMEA		
30.0	3.60	Water		
15.0	1.00	Raven 1255 Carbon Black	Columbian	Add with agitation, and sandmill to 7+H.
113.5	12.75	EPS 6208	EPS	Letdown in order.
58.4	5.84	Cymel 303LF	Allnex	
4.0	0.48	BYK 346	BYK	
10.0	1.33	Glycol Ether EB	Eastman	
20.0	2.98	Secondary Butanol		
7.0	0.95	DMEA		Adjust pH (8.0-8.5) before adding water.
425.0	51.02	Water		Add with good agitation.
<u>37.0</u>	<u>4.44</u>	Water		Adjust viscosity.
855.4	100.01	Totals		

Formulation Parameters

Weight Solids:	29.12%
Volume Solids	25.39%
PVC	4.07%
Pigment/Binder	0.07
VOC Level	2.76 lbs/gal 331 g/l

Typical Paint Properties

Viscosity, #2 Zahn	38-42 seconds
Dry Film Thickness	0.6 – 0.8 mils
Bake schedule	8 min. @ 300F
60° Gloss	80+ degrees
Density	8.55 lbs/gal

NOTE: The above formula is designed for baking schedules of 300 degrees F or higher. For lower temperatures, the use of Cymel 325 (Cytec) has been found effective in achieving desired cure, with starting levels of 15% on solids.

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