

# EPS<sup>®</sup> 2568

## ACRYLIC EMULSION

# DATA SHEET

### Description

**EPS 2568** is a styrenated acrylic emulsion designed for use in clear and pigmented coatings that exhibit excellent hardness development with good humidity and corrosion resistance. Use on ferrous and non-ferrous metals, cementitious, wood and plastic substrates.

- ✓ Excellent hardness development
- ✓ Good corrosion resistance and humidity resistance

### Specifications

*Weight Solids:* 40.0 ± 0.7%  
*Weight/Gallon:* 8.60 ± 0.10  
*pH:* 7.0 - 8.0

### Suggested Coalescing Solvent(s)

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

EB 30%

### Typical Properties

*Volume Solids:* 38.4 ± 0.7%  
*MFFT:* 50°C  
*Volatile(s):* Water  
*Acid Value (on solids):* 50

### Suggested Paint Formulations

EPS 2568 WHT ST1 - High Gloss White Enamel (spray)  
EPS 2568 BLK ST1 - High Gloss Force Dry Black Enamel  
EPS 2568 EXP BLK - Black Dip Enamel

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

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## SUGGESTED FORMULATION

FORMULA: EPS 2568 WHT ST1 (12/07/99)  
HIGH GLOSS WHITE ENAMEL

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
41.7	5.00	Water		Add with good agitation.
8.0	0.88	Tamol 681	Dow	
4.0	0.55	Surfynol 104A	Air Products	
2.0	0.23	BYK 024	BYK	
225.0	6.45	RCL-535	SCM	Grind to 7+NS.
583.0	67.00	<b>EPS 2568</b>	<b>EPS</b>	Add with good agitation.
70.0	9.32	EB	Lyondell	
5.0	0.67	Ammonium hydroxide		
2.0	0.21	Nuosept 95	Ashland	
10.0	1.20	Sodium nitrite 4%		
65.0	7.80	Water		
1.0	0.12	Water		Premix, add with good agitation.
4.0	0.44	Acrysol RM-2020	Dow	
1.0	0.11	Acrysol RM-825	Dow	
<b>1021.7</b>	<b>100.00</b>	<b>Totals</b>		

### Formulation Parameters

Weight Solids	45.75	%
Volume Solids	32.41	%
Weight / Gallon	10.22	lb/gal
Pigment Volume Conc.	20.50	%
Pigment / Binder	0.96	
VOC	212	g/l
	1.77	lb/gal

### Typical Paint Properties

Viscosity (Stormer)	60 – 70 KU
pH	8.5 - 9.0
Color	White
60° Gloss	85+

### Suggested Application Methods

Spray

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# SUGGESTED FORMULATION

FORMULA: EPS 2568 BLK ST1 (12/15/00)

HIGH GLOSS FORCE DRY BLACK (BLENDED WITH EPOXY ESTER)

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
129.1	15.37	Epotuf 38-690	Reichhold	Add with good agitation.
0.5	0.06	AMP 95	Dow	
2.7	0.31	Disperse-Ayd W-22	Elementis	
1.9	0.22	BYK 024	BYK	
18.4	2.45	EB		
13.7	0.91	Raven 850 Black	Columbian	Grind to 7+NS.
419.9	48.26	<b>EPS 2568</b>	<b>EPS</b>	Add with good agitation.
9.1	1.09	4% Sodium Nitrite Sol.		
1.4	0.15	Nuosept 95	Ashland	
2.7	0.33	BYK 346	BYK	
4.1	0.47	BYK 024	BYK	
4.7	0.63	Ammonium Hydroxide 26%		Adjust pH to 8.0-8.5
172.0	20.65	Water		Premix, add with good agitation.
50.3	6.70	EB		
20.0	2.40	Water		Adjust viscosity
<b>850.5</b>	<b>100.00</b>	<b>Totals</b>		

### Formulation Parameters

Weight Solids	33.11	%
Volume Solids	30.11	%
Weight / Gallon	8.51	Lb/gal
Pigment Volume Conc.	3.14	%
Pigment / Binder	0.05	
VOC	293	g/l
	2.44	lb/gal

### Typical Paint Properties

Viscosity (#4 Ford)	55 – 65 secs
pH	8.0 - 8.5
Color	Black
60° Gloss (@1.0 mils DFT)	85+
Curing Conditions @ 165°F	7 – 10 mins.

### Suggested Application Methods

Spray

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## SUGGESTED FORMULATION

FORMULA: EPS 2568 EXP BLK

BLACK DIP ENAMEL (BLENDED W/ EPS 6264)

<u>Pounds</u>	<u>Gallons</u>	<u>Raw Material</u>	<u>Supplier</u>	<u>Instructions</u>
92.0	10.41	<b>EPS 6264</b>	<b>EPS</b>	Add in order with agitation.
1.0	0.13	AMP-95	Angus	
4.0	0.45	Byk 190	Byk Chemie	
2.0	0.23	Byk 024	Byk Chemie	
24.0	3.20	Butyl Cellosolve (EB)		
15.0	1.00	Raven 850 Carbon Black	Columbian	Add with agitation, and Sandmill to 7+ Hegman.
485.0	55.75	<b>EPS 2568</b>	<b>EPS</b>	Letdown in order.
10.0	1.20	4% Sodium Nitrite solution		
2.0	0.22	Nuosept 485	ISP	
2.0	0.24	Airex 901W	Tego Chemie	
3.0	0.36	Byk 346	Byk Chemie	Add grind at this point.
3.0	0.40	Ammonium Hydroxide		Adjust pH (8.0-8.5) before adding water.
174.0	20.89	Water		Add with good agitation.
3.0	0.34	Rheolate 1	Elementis	Add with good agitation.
24.0	3.20	Butyl Cellosolve (EB)		Add with good agitation.
16.7	2.00	Water		Use for viscosity adjustment.
<b>860.7</b>	<b>100.01</b>	<b>Totals</b>		

### Formulation Parameters

Weight Solids	32.87	%
Volume Solids	29.56	%
Weight / Gallon	8.61	# / gal
Pigment Volume Conc.	3.51	%
Pigment / Binder	0.06	
VOC	232	g / l
	1.94	# / gal

### Typical Paint Properties

Viscosity (#2 Zahn)	25-30 secs.
pH	8.0-8.5

### Suggested Application Methods

Dip, Spray

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