

# Starting Formulation

## SF 1616

### Masonry Block Fill

### EPI-REZ™ Resin 3520-WY-55 / EPIKURE™ Curing Agent 8537-WY-60

Formula	<u>Material</u>	<u>Supplier</u>	<u>Pounds</u>	<u>Gallons</u>
Part A				
	2-Propoxyethanol		11.6	1.50
	Triton X-100 Surfactant	Dow Chemical Co.	3.5	0.39
	Tamol 731 Surfactant	Rohm & Haas Co.	3.5	0.38
	Colloid 640 Defoamer	Rhodia	4.0	0.50
	DI Water		71.0	8.50
<i>Mix and add</i>				
	Rutile Titanium Dioxide		50.0	1.46
	Atomite Calcium Carbonate	Thompson Weinman	75.0	3.30
	ASP 170 Aluminum Silicate	Englehard Minerals + Chemicals Co.	35.0	1.67
<i>Hi speed disperse 10 minutes; then add</i>				
	Short Stuff Polyethylene Fibers	Mini Fibers, Inc.	7.0	0.93
	DI Water		11.4	1.37
<i>Add at reduced speed</i>				
	EPI-REZ Resin 3520-WY-55	Hexion	<u>260.0</u>	<u>30.00</u>
	Total Part A		532.0	50.00
Part B				
	EPIKURE Curing Agent 8537-WY-60	Hexion	129.0	14.25
	DI Water		166.0	20.00
<i>Mix well and add</i>				
	ASP 170 Aluminum Silicate	Englehard Minerals & Chemicals Co.	50.0	2.38
	325 Mesh Water Ground Mica	English Mica Co.	100.0	4.24
	Atomite Calcium Carbonate	Thompson Weinman	125.0	5.56
<i>Hi speed disperse 10 minutes; then add</i>				
	Short Stuff Polyethylene Fibers	Mini Fibers, Inc.	1.0	0.13
	Tap Water		<u>28.7</u>	<u>3.44</u>
	Total Part B		599.7	50.00

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Total Part A & B	1,131.7	100.00
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Mixing Instructions

	<u>Pounds</u>	<u>Gallons</u>
Part A	532.0	50.00
Part B	<u>599.7</u>	<u>50.00</u>
Part A + B	1,131.7	100.00

Resin Composition

	<u>Units</u>	<u>Value</u>
Part A	% solids	65.0
Part B	% solids	<u>35.0</u>
Part A + B	% solids	100.0

Caution: Although this coating will maintain a workable viscosity for 7 to 10 days, it is advisable to discard the material eight hours after the two components have been blended. Beyond eight hours film hardness is adversely affected.

Typical Formulation Table 1 / Formulation Properties Properties

	<u>Units</u>	<u>Value</u>
Mix ratio Part A : Part B	By volume	1 : 1
	By weight	0.89 : 1.0
Total weight solids	%	67.4
Total volume solids	%	46.2
Pigment volume concentration (PVC)	%	42.2
Volatiles Composition		
Water, lbs./ 100 gallons	lbs	393.6
Organic, lbs.	Lbs/ gal	1.21
	g/l	145
Application	Brush and Roller	
Viscosity @ 25°C		
Part A	KU	128
Part B	KU	108
Part A + B		
Fresh	KU	108
2 Hours	KU	104
4 Hours	KU	104
6 Hours	KU	104
8 Hours	KU	106

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