

starting formulation

No. 1821

Rapid Dry Waterborne Epoxy Primer

EPI-REZ™ Resins 5522-WY-55 and 3540-WY-55/ EPI-CURE™ 8292-Y-60 Curing Agent

Formula	Material	Pounds	Gallons
Part A			
	EPI-REZ™ Resin 5522-WY-55	205.0	22.78
	EPI-REZ Resin 3540-WY-55	61.9	6.88
	COLLOID 640 (Rhone-Poulenc)	5.0	0.60
	Water	140.0	16.81
	BENTONE LT (RHEOX, Inc.)	3.0	0.20
	<i>High Speed Mix for 15 minutes</i>		
	Water	30.0	3.60
	Diacetone Alcohol (Shell Chemical Company)	7.8	1.00
	RO-4097 Kroma Red, Red Iron Oxide (Harcros Pigments, Inc.)	65.5	1.60
	HALOX SW-1 11 (HALOX Pigments, Inc.)	93.8	3.94
	SPARMITE (Harcros Pigments, Inc.)	46.7	1.28
	325 Mesh Wet Ground Mica (KMG Minerals, Inc.)	46.9	2.00
	399 LO-MICRON (Whittaker, Clark & Daniels, Inc.)	85.0	3.78
	<i>High Speed Disperse to a texture of 5-6 N.S.</i>		
	EPI-REZ Resin 5522-WY-55	18.8	2.09
	15% Aqueous solution of potassium nitrite	8.0	0.95
	Water	<u>104.0</u>	<u>12.49</u>
		921.4	80.00
Part B			
	EPI-CURE™ Curing Agent 8292-Y-60	27.0	3.08
	EKTASOLVE EP (Eastman Chemical Company)	37.9	5.00
	Water	<u>99.3</u>	<u>11.92</u>
		164.2	20.00
Composite Blend		Viscosity	
	Part A	102 K.U.	921.4 80.0
	Part B	10.5 secs (Ford #4)	<u>164.2</u> <u>20.0</u>
	Parts A and B	68 K.U.	1192.0 100.0



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Table 1/Typical Coating Properties

Resin/Curing Agent ratio (solids basis)	
Epoxy Resin	88.1
Curing Agent	11.9
Total weight solids, %	47.6
Total volume solids, %	33.2
P.V.C., %	40.8
Induction time, minutes	30
Volatile Organic Compounds (VOC)	
Pounds/gallon	1.95
Grams/liter	234

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Resolution Performance Products

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