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VANDERBILT Minerals Formula

Formula 081512
Waterborne Alkyd Emulsion Direct-to-Metal Primer
DARVAN® C-N[1] Dispersing Agent**, VANSIL® W-30[1]** Wollastonite**,**
ACTIV-8®[1] Drier Accelerator

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	150.0	18.0	18.03	18.03
AMP-95®[2]	2.0	0.3	0.24	0.26
DARVAN® C-N[1]	10.0	1.1	1.20	1.08
Surfynol® 104 BC[3]	2.0	0.3	0.24	0.27
Drewplus® L 475[4]	2.0	0.3	0.24	0.26
Red Iron Oxide	50.0	1.3	6.01	1.25
Moly-White® MZAP[5]	50.0	2.0	6.01	2.00
VANSIL® W-30[1]	50.0	2.1	6.01	2.07
Gama-Sperse® 80[6]	100.0	4.4	12.02	4.43
Disperse at high speed for 15 minutes. Set aside.				
LET DOWN				
Preblend the drier accelerator and driers then add to the resin.				
50/50 n-Butanol/Xylene	20.0	2.9	2.40	2.86
ACTIV-8®[1]	0.6	0.1	0.07	0.08
12% Cobalt Cem-All®[7]	2.5	0.3	0.30	0.33
12% Zirconium Hex-Cem®[7]	4.2	0.5	0.51	0.52
Beckosol AQ® 210[8]	454.5	51.1	54.62	51.19
Mix at slow speed for 5 minutes.				
Add DISPERSION and mix at slow speed for 5 minutes.				
Drewplus® L 475[4]	2.0	0.3	0.24	0.26
Preblend the next two items and add.				
Water	50.0	6.0	6.01	6.01
Acrysol® RM 825[9]	5.0	0.6	0.60	0.58
Water	70.8	8.5	8.51	8.51
Mix at slow speed for 10 minutes.				
TOTALS	1025.6	100.1	123.26	99.99

PAINT PROPERTIES		
Density	10.2 lbs/gal	1.23 g/ml
% Solids by weight	50.2	
% Solids by volume	37.9	
PVC	26.5	
Pigment to binder ratio	1.00:1	
Calculated VOC	0.58 lbs/gal	70 g/L

RAW MATERIAL SUPPLIERS
[1]Vanderbilt Minerals, LLC, Norwalk, CT
[2]Angus Chemical Company, Buffalo Grove, IL
[3]Air Products and Chemicals, Allentown, PA
[4]Ashland Specialty Chemical Company, Columbus, OH
[5]Moly-White Pigments Group, Cleveland, OH
[6]Imerys Minerals, Ltd., Roswell, GA
[7]OM Group, Incorporated, Cleveland, OH
[8]Reichhold Incorporated, Research Triangle Park, NC
[9]Dow Chemical Company, Midland, MI

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