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VANDERBILT

Minerals Formula

Formula 121813
Alkyd Modified Acrylic Latex DTM Primer
DARVAN® CN¹ Dispersing Agent, **BILT-PLATES® 156¹** Clay,
VAN GEL® SX¹ Magnesium Aluminum Silicate, **ACTIV-8®¹** Drier Accelerator and Stabilizer

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	150.0	18.0	18.00	18.00
Cellosize® QP 4400 ²	1.0	0.1	0.12	0.09
28% Ammonium Hydroxide	0.3	<0.1	0.04	0.04
Methyl Carbitol ^{6,2}	30.0	3.5	3.60	3.53
DARVAN® CN¹ Dispersing Agent	15.0	1.6	1.80	1.62
Surfynol® 104 BC ³	2.0	0.3	0.24	0.27
Igepal® CO 630 ⁴	2.5	0.3	0.30	0.28
Ti-Pure® R 900 ⁵	75.0	2.3	9.00	2.25
Raven® H2O ⁶	1.0	0.1	0.12	0.07
JO 855 ZnPO ₄ ⁷	100.0	3.7	12.00	3.74
Imsil® A-15 ⁸	65.0	2.9	7.80	2.94
Gama-Sperse® 80 ⁹	55.0	2.4	6.60	2.44
Talcron® 35 LOA ¹⁰	35.0	1.5	4.20	1.50
BILT-PLATES® 156¹ Clay	25.0	1.1	3.00	1.15
VAN GEL® SX¹ Magnesium Aluminum Silicate	15.0	0.7	1.80	0.72
<i>Disperse at high speed for 15 minutes. Reduce speed for Let Down.</i>				
LET DOWN				
Rhoplex® MV 23-LO ²	420.0	47.8	50.50	47.82
Texanol ¹¹	6.5	0.8	0.78	0.81
<i>Preblend the driers and the alkyd resin.</i>				
Beckosol® 1271 ¹²	42.8	5.2	5.13	5.13
ACTIV-8®¹ Drier Accelerator and Stabilizer	0.1	<0.1	0.02	0.02
6% Co Cem-All ¹³	0.2	<0.1	0.03	0.03
12% Zr Hex-Cem ¹³	1.3	0.2	0.15	0.16
6% Mn Nap-All ¹³	0.2	<0.1	0.03	0.03
Skino® No.2 ¹³	0.4	0.1	0.04	0.05
Surfynol® 104 BC ³	2.0	0.3	0.24	0.27
Drewplus® L 475 ¹⁴	2.0	0.3	0.24	0.26
<i>Preblend the next two items and add.</i>				
Water	51.7	6.2	6.20	6.20
Acrysol® RM 825 ²	5.0	0.6	0.60	0.58
<i>Mix at slow speed for 10 minutes.</i>				
TOTALS	1102.0	99.9	132.49	100.01

PAINT PROPERTIES

Density	11.0 lbs/gal	1.35 g/cc
% Solids by weight	54.6	
% Solids by volume	39.6	
PVC	37.4	
Pigment to binder ratio	1.60:1	
Calculated VOC	0.96 lbs/gal	116 g/L

RAW MATERIAL SUPPLIERS

- ¹ Vanderbilt Minerals, LLC, Norwalk, CT
- ² Dow Chemical Company, Midland, MI
- ³ Air Products and Chemicals, Allentown, PA
- ⁴ Rhodia Incorporated, Cranberry, NJ
- ⁵ E.I. DuPont de Nemours & Company, Wilmington, DE
- ⁶ Columbian Chemicals Company, Marietta, GA
- ⁷ Rockwood Pigments NA Incorporated, Beltsville, MD
- ⁸ Unimin Corporation, New Canaan, CT
- ⁹ Imerys Minerals, LTD, Roswell, GA
- ¹⁰ Specialty Minerals Incorporated, Barretts, MT
- ¹¹ Eastman Chemical, Kingsport, TN
- ¹² Reichhold Incorporated, Research Triangle Park, NC
- ¹³ OM Group, Incorporated, Cleveland, OH
- ¹⁴ Ashland Specialty Chemical Company, Columbus, OH

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