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VANDERBILT

Minerals Formula

Formula 061314

Gray Acrylic Latex Rust Inhibitive Primer

VAN GEL® SX¹ Magnesium Aluminum Silicate, **DARVAN® 7-N¹** Dispersant

	Pounds	Gallons	Kilograms	Liters
DISPERSION				
Water	125.0	15.0	14.99	14.99
DARVAN® 7-N¹ Dispersant	12.5	1.3	1.50	1.29
Triton® CF-10 ²	2.5	0.3	0.30	0.28
Drewplus® L 475 ³	1.5	0.2	0.18	0.20
Methyl Carbitol® ⁴	25.0	2.9	3.00	2.94
<i>Mix at slow speed and add:</i>				
Tint-Ayd® AT 3451 Yellow Iron Oxide ⁴	10.0	0.6	1.20	0.60
Ti-Pure® R 706 ⁵	185.0	5.6	22.18	5.55
JO 855 Zinc Phosphate ⁶	30.0	1.2	3.60	1.21
325 Mesh Mica	30.0	1.3	3.60	1.27
Gama-Sperse® 80 ⁷	120.0	5.3	14.39	5.31
Raven® H2O ⁸	4.0	0.3	0.48	0.27
VAN GEL® SX¹ Magnesium Aluminum Silicate	5.0	0.2	0.60	0.23
<i>Disperse at high speed for 20 minutes. Reduce speed for Let Down.</i>				
LET DOWN				
Arolon® 847-W-42 Latex ⁹	475.0	55.8	56.96	55.84
Arcosolv® PnB ¹⁰	45.0	6.2	5.40	6.19
10% Sodium Nitrite	4.0	0.5	0.48	0.48
28% Ammonium Hydroxide	2.0	0.3	0.24	0.26
Water	25.0	3.0	3.00	3.00
<i>Mix at slow speed for 10 minutes.</i>				
TOTALS	1101.5	100.0	132.1	99.91
PAINT PROPERTIES				
Density		11.0 lbs/gal		1.32 g/cc
% Solids by weight		52.5		
% Solids by volume		36.3		
PVC		38.6		
Pigment to binder ratio		1.90:1		
Calculated VOC		1.48 lbs/gal		178 g/L

RAW MATERIAL SUPPLIERS

- ¹Vanderbilt Minerals, LLC, Norwalk, CT
- ²Dow Chemical Company, Midland, MI
- ³Ashland Specialty Chemical Company, Columbus, OH
- ⁴Elementis Specialities, East Windsor, NJ
- ⁵E. I. DuPont de Nemours & Company, Wilmington, DE
- ⁶Rockwood Pigments NA Incorporated, Beltsville, MD
- ⁷Imerys Minerals, LTD, Roswell, GA
- ⁸Columbian Chemicals Company, Marietta, GA
- ⁹Reichhold Incorporated, Research Triangle Park, NC
- ¹⁰Lyondell Chemical Company, Rotterdam, Netherlands

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Vanderbilt Minerals, LLC, 33 Winfield Street, P.O. Box 5150, Norwalk, CT 06856-5150
Telephone: (800) 562-2476 - Fax: (203) 855-1220 - Web Site: vanderbiltminerals.com

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