



Comprehensive Minerals Application Guide

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Contact Information

Please contact us for further information on the Vanderbilt products described in this folder.
Samples and Technical Data Sheets are available on request.

DIXIE CLAY® Filler, PAR® Clay, BILT-PLATES® Clay, McNAMEE® Clay, PEERLESS® Clay,
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Adhesives & Sealants Applications

	VANSIL® W-10	VANSIL W-20	VANSIL W-30	VANSIL W-40	VANSIL W-50	VANSIL WG	DIXIE CLAY®	BILT-PLATES® 156	McNAMEE® Clay	PEERLESS® 1	PYRAX® A	PYRAX B	PYRAX WA
Construction:													
Caulks, Mastics, Putties		√				√	√	√	√	√	√	√	√
Sealants													
Wood Bonding													
Contact Adhesives							√	√	√	√			
Concrete Adhesives						√	√	√	√	√			
Concrete Sealants							√	√	√	√			
Window Glazing													
Patching Compounds	√	√					√	√	√	√			
Gypsum Board		√						√			√	√	
Packaging:													
Emulsion Glues							√						
Pressure Sensitive							√	√					
Hot Melt	√	√	√	√	√		√	√					
Tube Winding Adhesives							√	√	√	√			
Laminating Adhesives									√	√			
Automotive:													
General Purpose		√	√				√	√	√	√			
Windshield Adhesives	√	√				√	√						
Accessory Adhesives		√	√										
Sealing Tapes						√	√	√	√	√			
Radiator Sealers						√							
Brake Liner Cements	√	√	√	√	√								
Hose Adhesives							√	√	√	√			
Tire Tread Cements							√	√	√	√			
Headliner Cements							√	√	√	√			
Plastics Adhesives													
Other Transportation:													
Marine Repair Adhesives						√	√	√	√				
Consumer:													
Shoe Sole Cements	√	√					√	√	√	√			
Hobby Adhesives							√	√	√	√			
Other:													
Metal Adhesives		√											

Ceramics & Refractories Applications

	VANSIL® W-10	VANSIL W-20	VANSIL W-30	VANSIL WG	PEERLESS® 2	PEERLESS 3	PYRAX® HS	PYRAX RG 200	PYRAX RG 140	PYRAX MP
Whiteware:										
Tile Body	√				√					√
Tile Glaze		√	√				√			
Sanitaryware Body				√	√		√			
Sanitaryware Glaze		√	√				√			
Dinnerware Body	√						√			
Dinnerware Glaze		√	√							
Slip Cast Body	√	√					√			
Slip Cast Body Glaze		√	√							
Earthenware	√	√			√					
Refractories:										
Abrasives	√							√	√	
Foundry Mold Washes	√							√	√	
Flux Powder	√									
Insulating Firebrick					√	√		√	√	√
Crucibles	√						√			
Molten Metal Ladles	√						√			
Ceramic Fiber	√									
Ceramic Fire Logs				√			√	√	√	
Structural Clay Products:										
Brick Body	√					√	√			
Brick Coatings		√				√	√	√		
Roofing Tile	√			√						
Drain Tile	√				√	√				
Advanced, Technical:										
Insulators			√				√			
Porcelain Enamel					√					
Cement, Gypsum Products:										
Calcium Silicate Board	√			√						
Plasters				√						
Cement	√			√						

Paints & Coatings Applications

	VANSIL® WG	VANSIL W-10	VANSIL W-20	VANSIL W-30	VANSIL W-40	VANSIL W-50	DIXIE CLAY®	BILT-PLATES® 156	PEERLESS® 1	PEERLESS® 3	PYRAX® A	PYRAX B	PYRAX WA	VEECOTE®
Architectural:														
Latex Exterior			√	√	√	√						√		√
Latex Interior			√	√	√	√		√				√		√
Latex Primers			√	√	√	√	√	√	√	√				√
Solvent-borne Interior														
Solvent-borne Exterior														
Stains			√	√	√	√								
Textured & Stucco	√	√										√	√	√
Industrial:														
Anti-skid	√	√				√								
Asphaltic Emulsion	√	√	√				√							
Block Filler	√	√	√	√			√	√	√	√		√	√	√
Ceiling Tile	√		√	√	√			√						
Cement & Masonry	√		√									√	√	√
Floor Patching	√	√	√				√	√	√	√				
Grouts	√	√					√	√	√	√		√	√	√
High Solid		√	√	√	√	√								
Marine				√	√	√								
Marine Primer				√	√	√								
Pipe			√	√	√	√								
Powder			√	√	√	√								
General Purpose Primer			√	√	√	√	√	√	√	√				
Roof	√	√	√				√	√	√	√				
Swimming Pool	√	√	√	√	√	√								
Textured & Stucco	√	√	√	√	√		√	√	√	√			√	
Traffic Marking			√	√	√									

Plastics Applications

	VANSIL® HR-325	VANSIL HR-1500	VANSIL HR-2000	VANSIL WG	VANSIL W-20	VANSIL W-30	VANSIL W-40	VANSIL W-50	DIXIE CLAY®	BILTPLATES® 156	McNAMEE® Clay
THERMOPLASTICS											
Automotive:											
Exterior Parts	√	√	√				√	√			
Interior Parts/ Instrument Panels	√	√	√				√	√			
Door Handles, Trim Pieces		√									
Exterior Lamp, Mirror Housings		√	√								
Wheel Covers											
Under-the-Hood											
Electrical Components									√	√	√
Recreational Vehicle Parts											
Construction:											
Roofing Membranes		√	√	√					√		
Window, Door Frames			√				√				
Wood-Plastic Composites	√	√	√								
Farm Equipment Components		√	√								
Consumer:											
Furniture/Appliances		√					√		√	√	
Power Tool Housings											
Lawn Care Equipment Parts		√	√				√				
Communications Equipment									√	√	
Other:											
Masterbatch							√				
Food Containers	√						√				
THERMOSETS											
Automotive:											
Exterior Parts											
Electrical Components											
Brake Friction/Piston Parts			√	√							
Truck Bed Liner		√									
Body Repair Mastics											
Construction:											
Roofing Panels			√	√							
Flooring			√	√							
Countertops					√						
Tub, Shower Surrounds				√							
Commercial Furniture											
Potting Compounds					√						
Consumer:											
Packaging Film	√										
Power Tool Housing		√	√								
Computer Housing, Parts		√	√								
Communications Equipment							√	√	√	√	
Sports Equipment		√	√	√							
Other:											
Recreational Transportation		√	√	√							
Gel Coats							√	√			
SMC, BMC Compounds		√	√	√					√	√	√
Miscellaneous Cast Urethanes				√							

Rubber Applications

	VANSIL® WG	VANSIL W-40	VANSIL W-50	DIXIE CLAY®	PAR® CLAY	BILTPLATES® 156	LANGFORD™ Clay	McNAMEE® Clay	PYRAX® A	PYRAX B
Automotive:										
Tires				√	√	√	√	√		
Inner Tubes				√	√	√	√	√		
Gaskets/Seals	√			√	√	√	√	√		
O-Rings				√	√	√	√	√		
Brake Pistons	√			√						
Splash Guards/Flaps				√	√	√	√	√		
Other Transportation:										
Aircraft				√	√	√	√	√	√	√
Recreational				√	√	√	√	√	√	√
Floats/Buoys				√	√	√	√	√		
Inner Tubes				√	√	√	√	√		
Railroad Crossing Pads	√			√	√	√	√	√	√	√
Off-Road Tires/Accessories				√	√	√	√	√		
Construction:										
Roofing, Related Membranes	√			√						
Mats/Pads				√	√	√	√	√	√	√
Expansion Joints	√			√	√	√	√	√	√	√
Flooring	√			√	√	√	√	√	√	√
Liners				√	√	√	√	√	√	√
Mallets				√	√	√	√	√	√	√
Stair Treads				√	√	√	√	√	√	√
Weatherstripping/Seals				√	√	√	√	√		
Consumer:										
Footwear				√	√	√	√	√		
Appliance Parts				√	√	√	√	√		
Play & Sport				√	√	√	√	√		
Novelties				√	√	√	√	√		
Erasers				√		√				
Medical:										
Balloons										
Condoms										
Latex Goods										
General:										
Adhesives/Sealants/Mastics	√	√	√	√	√	√	√	√	√	√
Films		√	√							
Wire & Cable		√	√	√	√	√	√	√		
Aprons/Sleeves				√	√	√	√	√	√	√
Bearings/Bearing Pads				√	√	√	√	√	√	√
Battery Parts				√	√	√	√	√		
Bellows				√	√	√	√	√	√	√
Belts/Pulleys				√	√	√	√	√		
Bladders				√	√	√	√	√	√	
Blankets/Covers	√									
Cellular Goods				√	√	√	√	√		
Coated/ Dipped Goods						√			√	√
Diaphragms				√	√	√	√	√		
Hose				√	√	√	√	√	√	√
Printing Rolls/Blankets				√	√	√	√	√	√	√
Rubber Bands				√	√	√	√	√		
Safety Items		√		√	√	√	√	√	√	√
Stoppers				√	√	√	√	√	√	√

Minerals from R.T. Vanderbilt Company, Inc.

Typical Properties	Density		GE	<325	Median	Hegman		Oil
	g/cm ³	lb/gal	Brightness	mesh,%	P.S., μm	Fineness	pH ^A	Abs., %
<i>Kaolin Clay (Hard Clay)</i>								
DIXIE CLAY®	2.60	21.6	70	99.8	0.2	--	4.5	41
PAR®	2.62	21.8	68	99.5	0.2	--	4.8	40
BILT-PLATES® 156	2.62	21.8	75	99.95	0.2	4	4.5	41
<i>Kaolin Clay (Soft Clay)</i>								
LANGFORD™ Clay	2.62	21.8	69	99.0	1.3	--	4.8	36
McNAMEE® Clay	2.62	21.8	75	99.7	1.2	2	4.8	35
PEERLESS® 1	2.60	21.6	75	99.6 ^B	1.2	0	4.6	30
PEERLESS 3	2.60	21.6	60	99.6 ^B	1.1	0	4.6	33
<i>Pyrophyllite</i>								
PYRAX® A	2.80	23.3	65	90.0	10.0	0	6.9	24
PYRAX ABB	2.80	23.3	65	91.0	11	0	6.9	24
PYRAX B	2.80	23.3	78	95.0	10.0	0	6.9	26
PYRAX WA	2.80	23.3	78	87.0	14.0	0	6.6	24
VEECOTE®	2.80	23.3	80	99.0	10.0	0-1	6.9	26
<i>Wollastonite</i>								
VANSIL® W-10	2.90	24.2	87	97.3 ^B	20.0	0	10.0	19
VANSIL W-20	2.90	24.2	87	98.0	12.0	0-1	10.0	20
VANSIL W-30	2.90	24.2	87	99.9	4.5	4	10.0	21
VANSIL W-40	2.90	24.2	87	99.97	5.6	5	10.0	26
VANSIL W-50	2.90	24.2	87	99.99 ^C	2.8	6+	10.0	30
VANSIL WG ¹	2.90	24.2	89	80.0 ^B	--	0	10.0	40
VANSIL HR-325 ²	2.90	24.2	89	99.95	2.3	6+	10.0	40
VANSIL HR-1500 ³	2.90	24.2	89	97.5 ^B	9.0	0-1	10.0	44
VANSIL HR-2000 ³	2.90	24.2	89	95.0 ^B	14.0	0-1	10.0	46

¹Acicular; 15:1 aspect ratio

²Acicular; 12:1 aspect ratio

³Acicular; 14:1 aspect ratio

^A10% slurry

^B<200 mesh

^C<400 mesh

Most wollastonite products are available with silane treatments under the VANCOTE® trademark.

DIXIE CLAY® Filler, PAR® Clay, BILT-PLATES® Clay, McNAMEE® Clay, PEERLESS® Clay, PYRAX® Pyrophyllite, VEECOTE® Pyrophyllite and VANSIL® Wollastonite are registered trademarks of R.T. Vanderbilt Company, Inc.
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