

R.T. Vanderbilt Company, Inc.'s Paint Department supplies many raw materials which are extensively used in the paint and coatings industries. This folder provides general information on these products. Samples and literature providing technical information are available on request.

## **Mineral Products/Silicate Extender Pigments**

### **Talc - Hydrous Magnesium Silicate**

**VANTALC**® mineral fillers are a high purity platy talc (magnesium silicate) that is supplied in a number of different grades with a wide range in fineness and binder requirements. This gives the paint formulator a versatile pigment when formulating in water or solvent based systems where high brightness, chemical inertness, good suspension qualities and gloss control are required.

Following is a list of available grades with typical properties:

	Hegman		Dry
	Fineness	Brightness	Absorption
<b>VANTALC 2000</b>	0	87	36
<b>VANTALC 2500</b>	0	80	26
<b>VANTALC 3000</b>	3.5	87	42
<b>VANTALC 3100</b>	2.25	83	36
<b>VANTALC 3500</b>	4	87	38
<b>VANTALC 4000</b>	4.75	87	52
<b>VANTALC 4500</b>	5	88	44
<b>VANTALC 6H</b>	6	88	52
<b>VANTALC 6H-II</b>	6+	91	55
<b>VANTALC F2003</b>	5	86	45
<b>VANTALC F2504</b>	5	89	42

### **Wollastonite – Calcium Metasilicate**

**VANSIL**® wollastonite is a high brightness mineral filler and functional extender pigment for paint. **VANSIL** has a relatively high pH (10-11) that maintains the pH of latex paints in the desired range. It has low binder demand and low water solubility. The fineness of each grade follows:

	Screen Residue		Hegman Fineness
<b>VANSIL WG</b>	20.0%	+200 mesh	0
<b>VANSIL HR-2000</b>	10.0%	+200 mesh	0
<b>VANSIL HR-1500</b>	5.0%	+200 mesh	0
<b>VANSIL HR-325</b>	0.05%	+325 mesh	4
<b>VANSIL W-10</b>	4.5%	+200 mesh	0
<b>VANSIL W-20</b>	3.0%	+325 mesh	0-1
<b>VANSIL W-30</b>	0.09%	+325 mesh	4
<b>VANSIL W-40</b>	0.1%	+325 mesh	5
<b>VANSIL W-50</b>	0.05%	+400 mesh	6+

**VANCOTE**® wollastonite is a **VANSIL** grade with either an amino or epoxy silane treatment to improve the adhesion of coatings and corrosion resistance. Standard grades are **VANCOTE W40AS**, **W50AS** and **W50ES**. Other grades can be produced for special requirements.

### **Clay (Kaolin) – Hydrous Aluminum Silicate**

**PEERLESS**®, **DIXIE CLAY**® and **BILT-PLATES**® 156 fillers are air-floated clays available in grades that vary in brightness and fineness. They are used in coatings, primers, crack fillers and caulking compounds when high brightness is not a prerequisite.

The fineness of each grade follows:

	Screen Residue	
<b>PEERLESS 1</b>	0.40%	+200 mesh
<b>PEERLESS 3</b>	0.40%	+200 mesh
<b>DIXIE CLAY</b>	0.20%	+325 mesh
<b>BILT-PLATES 156</b>	0.05%	+325 mesh

### **Pyrophyllite – Hydrous Aluminum Silicate**

**PYRAX**® pyrophyllite is useful as an extender pigment when a relatively coarse material is required. Its micaceous structure helps to control the mud cracking of texture paints. The fineness of each grade follows:

	Screen Residue (+200 mesh)	
<b>PYRAX B</b>	1.0%	
<b>PYRAX WA</b>	3.0%	
<b>VEECOTE</b> ®	0.3%	

### **Inorganic Thixotropes for Aqueous Systems**

**VAN GEL**® B and **VEEGUM**® T smectite clays (magnesium aluminum silicate) are specially formulated for easy incorporation and consistent performance in aqueous systems. Aqueous dispersions of **VAN GEL B** or **VEEGUM T** are highly thixotropic gels at low solids, and are resistant to bacterial and enzymatic degradation. The use of **VAN GEL B** or **VEEGUM T** in a coating formula results in a product with no separation and with uniform thixotropic consistency that requires no stirring, while promoting good flow and brushing characteristics. The result is "dripless" application and leveling without sag. **VAN GEL B** or **VEEGUM T**, in combination with an associative thickener, has minimal effect on the gloss of semi-gloss latex paints.

## **Additives**

### **Drier Accelerators and Stabilizers**

**ACTIV-8**® and **ACTIV-8 HGL** drier accelerators are used to optimize drier performance in a wide range of coatings. The active ingredient is 1,10-phenanthroline, offered in different solvent blends. The solutions perform well with manganese and/or cobalt driers in solvent- and waterborne coatings. 1,10-phenanthroline Technical Grade is also available.

A "How-to" Guide for the Use of **ACTIV-8** is available on request.

### **Corrosion Inhibitors**

**VANCOR**® corrosion inhibitors are metallic sulfonates in solvents that are not on the HAPS list. Calcium and

barium sulfonates are available. Salt-spray tests have shown that these products improve the corrosion resistance of coatings. The **VANCORS** perform well in water-reducible alkyd and latex coatings. **VANCOR 081** (barium sulfonate) also acts as a flash rust inhibitor.

### **Flow Control Agent for Solvent-Borne Paints**

**RHEOTOL**® paint additive is a stable nonreactive film-forming organic composition. Useful in solvent-borne coatings, **RHEOTOL** performs as a mixing and dispersing aid in many types of paint, particularly those based on poor wetting vehicles. It assists pigment wetting and dispersion, improves flow, leveling and gloss, and increases paste flow, allowing a higher percentage of pigment to be mixed in a given amount of vehicle.

### **Organic Thickeners for Aqueous Systems**

**VANZAN**® anionic polysaccharide (xanthan gum) is produced from the fermentation of carbohydrates by the microorganism *xanthomonas campestris*. It is supplied as a creamy-white powder that forms pseudoplastic colloidal solutions in water and is insoluble in most organic liquids. **VANZAN** has exceptional thickening, suspending and stabilizing properties in the presence of acids, bases and salts, and at elevated temperatures. The grades used in coating applications are **VANZAN** and **VANZAN D**.

## Dispersing Agents for Aqueous Systems

**DARVAN®** surfactants are anionic dispersing agents. They disperse finely divided solids in water and help to keep them dispersed. The following **DARVAN** products are useful in the formulation of paints and coatings:

**DARVAN 1 Spray Dried** is a general purpose dispersing agent. It is a granular product composed of sodium salts of polymerized alkyl naphthalene sulfonic acid. It increases paste flow, allowing a higher percentage of pigment to be mixed in a given amount of vehicle.

**DARVAN 7-N** is a polyelectrolyte dispersing agent in an aqueous solution. It is a minimum foaming dispersing agent.

**DARVAN 670** is a general purpose dispersing agent, sodium salts of polymerized naphthalene sulfonates.

**DARVAN 811** is a sodium polyacrylate solution for high solids mineral slurries such as kaolin, calcium carbonate, etc.

## Mold Inhibitors

**VANCIDE® MZ-96 Dispersion** is a 50% aqueous dispersion of VANCIDE MZ-96 powder. Product has the handling advantages of a liquid for the same applications as above.

**VANCIDE MZ-96** is a very effective heat stable mold inhibiting powder for use in unmodified latex paints, joint compounds, adhesives and textured finishes. **VANCIDE MZ-96** dispersion is 50% active in water.

## Preservative

**VANCIDE TH** preservative is effective for latex paints. It prevents attack by microorganisms while the paint is in storage. It is completely soluble in water, and can therefore be added at any point during manufacture.

## Synthetic Rubber Polymers

### NEOPRENE

Available as an emulsion in many grades for various applications. Uses include industrial and decorative coatings, dipped goods, saturants and wet end additives for fibrous products.

## Hypalon®

Available in various grades that are solvent-soluble. Films are flexible and extensible at low temperature, and are resistant to oils and solvents.

Please contact R.T. Vanderbilt Company, Inc. for further information on the products described in this folder. Samples and Technical Data Sheets are available on request.

### Headquarters:

R.T. Vanderbilt Company, Inc.  
Paint Department  
30 Winfield Street, Norwalk, CT 06855  
(203) 853-1400 - FAX: (203) 853-1452  
E-mail: [paint@rtvanderbilt.com](mailto:paint@rtvanderbilt.com)  
Website: [www.rtvanderbilt.com](http://www.rtvanderbilt.com)

### West Coast Office:

6281 Beach Boulevard  
Buena Park, CA 90621  
(714) 670-8084 Fax: (714) 739-1488  
E-Mail: [laoffice@rtvanderbilt.com](mailto:laoffice@rtvanderbilt.com)

### Vanderbilt International Sàrl, Headquarters:

World Trade Center II  
29, route de Pré-Bois, P.O. Box 870  
CH-1215 Genève 15, Switzerland  
Phone: +41-(0)22-929-5734  
Fax : +41-(0)22-929-5752  
E-mail: [Vanderbilt-Intl@rtvanderbilt.com](mailto:Vanderbilt-Intl@rtvanderbilt.com)

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