

The Paint Department at R.T. Vanderbilt Company, Inc. 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

### 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+

### 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.

**VAN GEL H**, is a water-washed natural smectite clay in the form of a free-flowing fine granule for easy incorporation. It is used as a thickener, suspension stabilizer and emulsion in paints and coatings for anti-settle and dripless architectural 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 **VANCOR** products 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 *xanthomomas 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 C-N**, ammonium polymethacrylate, is a highly efficient anionic dispersing agent for mineral pigments and extenders used in both interior and exterior water-borne paints and coatings. Flat and semi-gloss finishes benefit from the use of **DARVAN C-N**.

**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 560**, a sodium salt of hydrophobically modified maleic anhydride copolymer, is a highly efficient anionic dispersing agent for mineral pigments and extenders used in water-borne latex paints and coatings. **DARVAN 560** functions as a grinding aid for a wide variety of pigments. The use of **DARVAN 560** yields viscosity stabilization for extended shelf life and gloss improvement in semi-gloss paints.

**DARVAN 561**, a sodium salt of polymethacrylic acid, is a highly efficient anionic dispersing agent for mineral pigments and extenders used in water-borne exterior paints. **DARVAN 561** is effective in formulations containing zinc oxide, where it inhibits gel formation. **DARVAN 561** used as a dispersant for color pigments yields improved

color development. **DARVAN 561** functions well in highly alkaline systems and has excellent compatibility with glycols.

**DARVAN 670**, sodium polynaphthalene sulfonate powder, is an anionic dispersing agent for the preparation of aqueous dispersions of colored pigments, dyes, extender pigments, etc. that are used in the manufacture of water-borne paints and coatings. It is effective for viscosity reduction of high solids dispersions of red iron oxide and similar pigments.

**DARVAN 670L**, sodium polynaphthalene sulfonate, is a liquid anionic dispersing agent for the preparation of aqueous dispersions of colored pigments, dyes, extender pigments, etc. that are used in the manufacture of water-borne paints and coatings. It is effective for viscosity reduction of high solids dispersions of red iron oxide and similar pigments.

**DARVAN 7-N**, sodium polymethacrylate, is an effective dispersant for mineral pigments in water-based paints and coatings.

**DARVAN 811**, sodium poly acrylate, is a highly effective dispersant for high solids mineral pigment slurries such as TiO<sub>2</sub>, calcium carbonate or kaolin clay.

#### Synthetic Rubber NEOPRENE

#### 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.

Paint Products are available at:

<http://www.rtvanderbilt.com/paint.htm>

Paint Product Literature is available at:

[http://www.rtvanderbilt.com/news\\_1\\_d.htm](http://www.rtvanderbilt.com/news_1_d.htm)

Samples and Technical Data Sheets are available on request.



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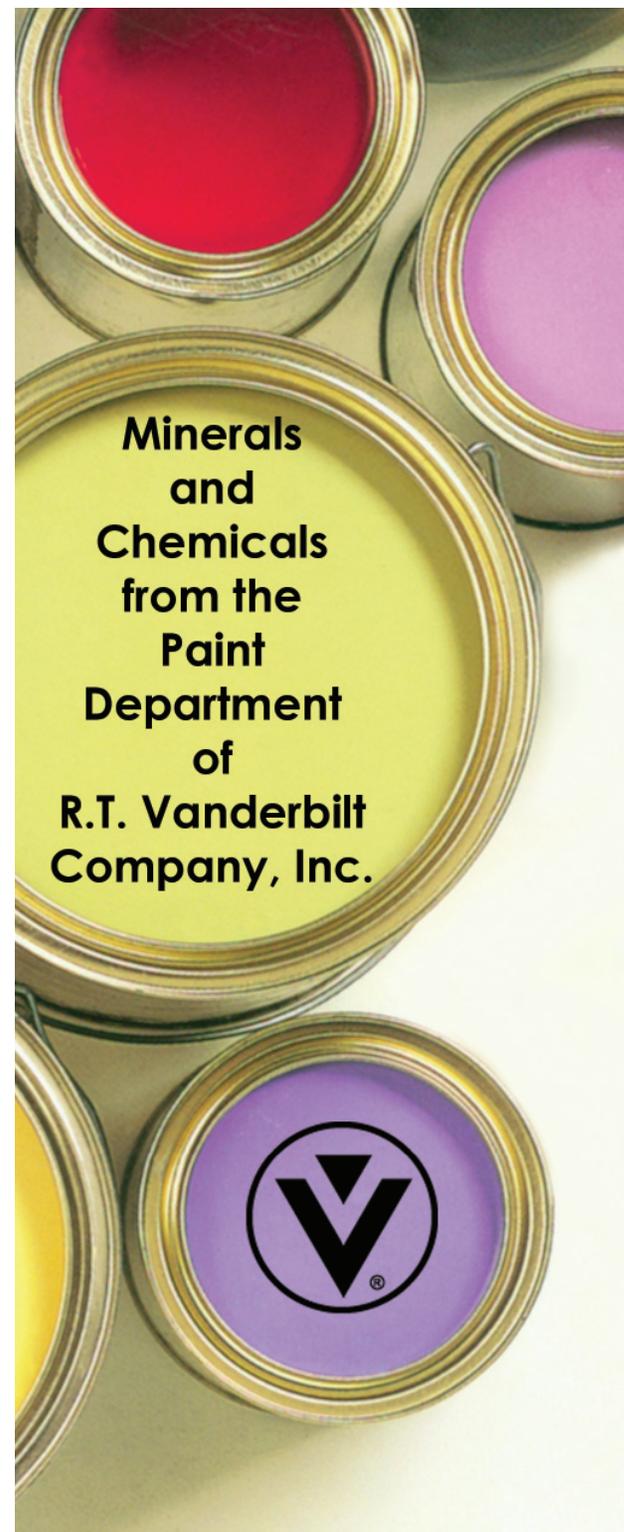
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