

## Chemical Additives for Paints and Coatings

### Drier Accelerators and Stabilizers

**ACTIV-8®** Drier Stabilizer and Accelerator and **ACTIV-8 HGL** 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-borne and water-borne coatings that dry by oxidative polymerization. **1,10-phenanthroline Technical Grade** is also available.

### Dispersing Agents for Aqueous Systems

**DARVAN®** Dispersing Agent products are anionic dispersing agents. They disperse finely divided solids in water and help keep them dispersed.

**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 into a given amount of vehicle.

**DARVAN 7-N**, a sodium polymethacrylate-type dispersing agent, is a minimum foaming dispersing agent that is effective for dispersing mineral pigments in water-borne paints and coatings.

**DARVAN 670**, the sodium salt of polymerized naphthalene sulfonates, is a general purpose anionic dispersing agents. **DARVAN 670** is used for the preparation of aqueous dispersions of colored pigments, dyes, extender pigments, etc. for water-borne paints and coatings. **DARVAN 670L** is a 40% aqueous solution of **DARVAN 670**.

**DARVAN 811**, a sodium polyacrylate dispersing agent, is effective for high solids mineral slurries such as  $\text{TiO}_2$ , kaolin, calcium carbonate, wollastonite, etc.

### Mold Inhibitor

**VANCIDE® MZ-98** is a very effective heat stable mold inhibiting powder for use in unmodified latex paints, joint compounds, adhesives and textured finishes.

### Synthetic Rubber

**NEOPRENE** is available as an emulsion in many grades for various application. Uses include industrial and decorative coatings, dipped goods, saturants and wet end additives for fibrous products.

### Organic Thickeners for Aqueous Systems

**VANZAN®** Xanthan Gum (anionic polysaccharide) has exceptional thickening, suspending and stabilizing properties in the presence of acids, bases and salts, and at elevated temperatures. **VANZAN** is supplied as a creamy-white powder that forms pseudoplastic colloidal solutions in water and is insoluble in most organic liquids. **VANZAND** is a surface treated grade that provides easy dispersion with rapid viscosity development without formulation of lumps or "fish eyes".

### Inorganic Thixotropes for Aqueous Systems

**VAN GEL® B** Magnesium Aluminum Silicate and **VEEGUM® T** Magnesium Aluminum Silicate are smectite clays specially formulated for easy incorporation and consistent performance in aqueous systems. Their use 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.

## Mineral Fillers for Paints and Coatings

### Wollastonite – Calcium Metasilicate

**VANSIL®** Wollastonite is a high brightness mineral filler and functional extender pigment for paint. Its relatively high pH (10-11) helps maintain the pH of latex paints in the desired range of 8-9. It has low binder demand and low water solubility. Both high aspect ratio and low aspect ratio grades are available.

	Screen Residue			Hegman Fineness
	+200 mesh	+325 mesh	+400 mesh	
<b>VANSIL WG</b>	20.0%			0
<b>VANSIL HR-2000</b>	10.0%			0
<b>VANSIL HR-1500</b>	5.0%			0
<b>VANSIL W-20</b>		3.0%		0-1
<b>VANSIL CK-20</b>		2.0%		0-1
<b>VANSIL W-30</b>		<0.1%		4
<b>VANSIL W-40</b>		0.1%		5
<b>VANSIL W-50</b>			<0.1%	+6

### Kaolin Clay – Hydrous Aluminum Silicate

**PEERLESS®** Clay, **DIXIE CLAY®** Clay, **McNAMEE®** Clay, and **BILT-PLATES® 156** Clay fillers are air-floated clays available in a wide range of finesses of grind. They are used in coatings, primers, crack fillers and caulking compounds when high brightness is not a prerequisite.

		Screen Residue	
		+200 mesh	+325 mesh
Soft Clays	<b>PEERLESS</b>	0.4%	
	<b>McNAMEE</b>		0.7%
Hard Clays	<b>DIXIE CLAY</b>		0.7%
	<b>BILT-PLATES 156</b>		0.1%

### Pyrophyllite – Hydrous Aluminum Silicate

**PYRAX®** Pyrophyllite is a useful extender pigment when a relatively coarse material is required. The micaceous structure of **PYRAX** helps control the mud cracking of texture paints. **PYRAX B** and **PYRAX WA** can be used as a mica replacement in ready mix joint compounds.

	Screen Residue
	+200 mesh
<b>PYRAX B</b>	<1%
<b>PYRAX WA</b>	<3%