



**Owensboro Specialty Polymers, Inc.**  
Chemistry that Connects, People that Care

# OSP Polyvinyl Acetate Polymers

**Owensboro Specialty Polymers, Inc.**  
5529 US 60 E.  
Owensboro, KY 42303

OSP\_TDS\_PVAcFactSheet1\_Rev.1

The information presented herein is based on the best available data and is believed to be true and accurate. Please read all statements, recommendations, or suggestions in conjunction with our conditions of sale which apply to all goods supplied by us. No responsibility for the use of these statements, recommendations, or suggestions is assumed by the supplier, nor are they intended as a recommendation for any use which would infringe any patent or copyright. The buyer bears sole responsibility for determining suitability of the product for their application.

## OSP Polyvinyl Acetate Polymers

OSP polyvinyl acetate polymers are typically shipped at a total solids content of 54-56%. Viscosity will vary by product from a low range of 50-200 cps to a high of 2000-4000 cps. The pH of these products will be between 4.0 and 7.0. A quality or characteristic that is common to all of our products is their excellent machining or mechanical stability.

### Commercial Products

#### DARATAK<sup>®</sup> 56L

This is a very high molecular weight polymer with a low emulsion viscosity used in applications that require higher heat resistance than found in typical polyvinyl acetate polymers. It is used in heat resistance adhesives and wood glues as well as some thermal forming applications. Its films exhibit a relatively high degree of solvent resistance and a high blocking point.

In adhesive formulations, Daratak 56L may be employed to obtain very good adhesive and tensile strengths, while minimizing thermoplasticity and cold flow. These properties are particularly important in adhesives that may be subjected to a wide range of temperatures. Daratak 56L exhibits good bite in wood substrates and has found wide application in wood glues both by itself and in compounded formulation.

The components of this emulsion comply with FDA regulations 175.105, 176.170 and 176.180 for use in food packaging, adhesives and coatings.

#### DARATAK<sup>®</sup> 61LT

This is a high viscosity, hydroethyl cellulose stabilized homopolymer that exhibits better water resistance than typical vinyl acetate polymers. It is Borax compatible, and will accept high levels of fillers and fire retardant additives. It is used in heat sealing, paper and foil adhesives and in fire retardant mastics.

The components of this emulsion comply with FDA regulation 175.105, 176.170 and 176.180 for use in food packaging, adhesives and coatings.

#### DARATAK<sup>®</sup> 62L

This polymer is a high viscosity version of Daratak 56L. It is a high molecular weight polyvinyl acetate homopolymer emulsion characterized by excellent adhesion, high

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viscosity, fast drying, and good penetration into coated surfaces. It is also good for high temperature applications.

The components of this emulsion comply with FDA regulation 175.105, Adhesives.

### DARATAK<sup>®</sup> 71L

This medium molecular weight vinyl acetate homopolymer is specifically designed to provide “fast grab” to any formulation. Its unique particle size distribution gives it a great deal of versatility and latitude in compounding. Its versatility in compounding and ability to tolerate large amounts of solvents make Daratak 71L ideal for box making and case sealing adhesives. It is a superior base for packaging adhesives and has excellent green tack.

The components of this emulsion comply with FDA regulation 175.105, 176.170, and 176.180 for use in food packaging, adhesives and coatings.

### DARATAK<sup>®</sup> 90L

This is an acrylic containing pressure sensitive copolymer emulsion that dries to a permanently tacky film. It is specifically designed for adhering to a wide range of non-porous substrates. It may be used alone or blended with elastomeric polymer emulsions used in pressure sensitive applications. It can be modified with tackifying resins or other polymers to give a wide range of pressure sensitive properties.

The components of this emulsion comply with FDA regulation 175.105, Adhesives.

### DARATAK<sup>®</sup> 92L

This is a medium viscosity, borax tolerant polyvinyl acetate homopolymer emulsion. Films exhibit excellent water resistance. It is used in heat sealing, paper and foil adhesives, and in fire retardant mastics. Daratak 92L exhibits and outstanding viscosity response to plasticizer addition, thus eliminating the need for thickeners or non-sag additives in many applications. When dried, a plasticized film of Daratak 92L exhibits excellent clarity.

The components of this emulsion comply with FDA regulation 175.105, Adhesives.

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### DARATAK<sup>®</sup> A and B

Daratak A and B are internally plasticized vinyl acetate copolymers. Films of Daratak A have flexibility equivalent to that of vinyl acetate homopolymers plasticized with 10% dibutyl phthalate. Films of Daratak B have flexibility equivalent to that of vinyl acetate homopolymers plasticized with 20% dibutyl phthalate. Tough, flexible and water resistant, Daratak A and B provide excellent machineability, speed of grab and set, afford adhesion to non-porous surfaces, and are compatible with a wide range of adhesives-compounding ingredients. Because of the excellent compounding stability, they can be used as a base for adhesives for non-porous substrates. They are different Tg versions of the same polymer.

Components of these emulsions comply with FDA regulations 175.105 and 176.170 for use in food packaging, adhesives and coatings.

### DARATAK<sup>®</sup> SP1074

This polymer is a vinyl acrylic terpolymer emulsion designed for bonding plastic films to themselves or to porous substrates. It can be applied by extrusion, roller, brush or spray. It is a compounded version of Daratak 90L that provides more aggressive tack and higher peel strength.

Components of this emulsion comply with FDA regulation 175.105, Adhesives.

### DARATAK<sup>®</sup> 17-200

This is a low-medium viscosity, general purpose polyvinyl acetate homopolymer emulsion, noted for its superior compounding and machining stability. It exhibits particularly good receptivity to solvents, acids and plasticizers. It finds application in a wide range of adhesive compounds for wood gluing and paper packaging, textile sizing and finishing. It has excellent adhesion and fiber tear on wood substrates.

Components of this emulsion comply with FDA regulation 175.105 and 176.170 for use in food packaging, adhesives and coatings.

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### DARATAK<sup>®</sup> 17-300

This is a high viscosity, general purpose polyvinyl acetate homopolymer emulsion, noted for its superior compounding and machining stability. It exhibits particularly good receptivity to solvents, acids and plasticizers. It finds application in a wide range of adhesive compounds for wood gluing and paper packaging, textile sizing and finishing. It has excellent adhesion and fiber tear on wood substrates.

Components of this emulsion comply with FDA regulation 175.105 and 176.170 for use in food packaging, adhesives and coatings.

### EVERFLEX<sup>®</sup> G

This is a high molecular weight vinyl acetate copolymer emulsion. It offers excellent flow, flexibility and machining properties. Consequently, it finds wide application in specialty coating applications. It is used in some durable exterior, maintenance coating, such as asphalt coatings. It has been used as a top coat for fabric used to make book covers, and as a concrete additive for patching old concrete.

### EVERFLEX<sup>®</sup> GT

This is a versatile emulsion polymer is designed for high solids mastic compounds, caulks, and joint cements. Its outstanding chemical and mechanical stability enables the formulator to develop high solid, high viscosity compounds with exceptional flow and leveling characteristics. It is able to accept high filler loadings while maintaining good flow and leveling properties. Its excellent mechanical stability and compounding versatility has enabled it to maintain a market share vs. straight acrylics.

### EVERFLEX<sup>®</sup> SP1084

This is a high molecular weight polyvinyl acetate emulsion polymer that is designed for use as a concrete additive.

### VERSAFLEX<sup>®</sup> 9

This is a vinylidene chloride acrylate designed to provide improved water resistance verses traditional acrylics. It has been used to encapsulate asbestos in place by spray applying to asbestos insulation materials. It provides a tough, durable, water resistant

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coating. It has excellent adhesion to glass, metal and some engineering plastics in either clear or pigmented coatings.

## **Discontinued Products**

### **DARATAK<sup>®</sup> 2300**

This is a high barrier PVdC/Acrylic latex offering excellent film formation and flexibility. It has found utility in metal coating applications for undercoating and sound deadening. It has been found to have excellent salt spray resistance in pigmented formulations, without corrosion inhibitive pigments. Tests on Cold Rolled Steel indicate potential for 168 hours plus salt spray resistance, in air-dried applications.

### **DARATAK<sup>®</sup> MX**

This is a modified Daratak B. It has improved specific adhesion to non-porous substrates as well as more aggressive tack. It does not require additional compounding for most applications. The acrylic monomer has been incorporated in a way that makes the most of its strength and adhesive properties.

### **EVERFLEX<sup>®</sup> SP1080**

This is a high molecular weight polyvinyl acetate emulsion polymer.

### **VERSAFLEX<sup>®</sup> 1**

This is a versatile acrylic polymer specifically designed to prevent blistering and peeling soon after application and before the film is leached of its water extractable. It is then that films are most susceptible to loss of adhesion due to extreme condensation, heavy dew or prolonged rain. In addition, Versaflex 1 provides excellent alkali resistance, pigment binding, all-weather binding, low temperature flexibility, tint retention, and scrub resistance. It is an outstanding exterior paint polymer. It also improves color definition in some paper coating applications.

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