

## PRODUCTS FOR ADHESIVES & SEALANTS

dar-tech, Inc, distributes specialty additives, functional minerals, resins, and pigments from our global network of suppliers. The range of products provide formulation versatility, improved processing & application properties, and optimized physical & performance properties.



## MEET OUR SUPPLIERS

### ADDITIVES

#### ADM LECITHIN

Yelkin TS, Yelkin SS and ADM 551 water dispersible lecithin. Yelkin® Lecithin wetting and dispersants reduce dispersion time and optimize pigment loadings which improve production efficiencies, lower energy and raw material costs.

#### AFCONA ADDITIVES

High molecular weight polymeric dispersants, wetting and dispersing additives, defoamers & deaerators, flow & slip agents.

#### BORICA SPECIALTY CHEMICALS

TYTAN titanate & zirconate catalysts act as combined cross-linkers, catalysts, moisture scavengers and modulus modifiers. TYTAN S-range grades are used in neutral cure RTV Silicone sealants to improve properties to meet performance requirements of the automotive, aeronautic, construction and electronic industries.

#### DEVINE CHEMICAL

DeCal 1000 Series associative & polymeric thickeners, DeCal 2000 Series polyacrylate dispersants, superplasticizers & surfactants, DeCal 5000 defoamers.

#### MINIFIBERS, Inc.

SHORT STUFF® highly fibrillated HDPE fibers are a unique form of polyolefin fibers having properties which offer many advantages over conventional products, such as fumed silica or cellulose, in adhesive & sealant applications. These fibers are used in coatings, block fillers, stucco, adhesives, putties, mastics, grouts, caulks, sealants, casting slurries, and more due to their high efficiency, only a small percentage of fibers is required.

#### IPPG SILICAS

HI-SIL® T-600 & HI-SIL® T-700 thickening agents are a premium grade, synthetic amorphous precipitated silica thixotropes designed specifically for adhesive and sealant applications. Hi-Sil thickening agent offers improved viscosity and a higher thixotropy index providing better aging stability for superior sag control with maximum thickening capabilities with high oil absorption and finer particle size properties.

#### TOLSA

PANGEL Sipiolite & Bentonite, CIMSIL Attapugite products are high-purity shear-thinning additives made from different clay minerals that can be used in both water and solvent-based systems. Our additives provide good viscosity and workability without damaging the adhesive strength while offering better thickening properties, sedimentation/settling control, optimal stability during transportation, syneresis control and anti-sag capabilities.

# MEET OUR SUPPLIERS

## FUNCTIONAL MINERALS

### BURGESS PIGMENT

In adhesives, kaolin clays can serve as simple fillers, or be reactive or functional. **THERMO GLACE H** and other air floated, water washed kaolin's are lower cost while also improving rheology. **ICEBERG** and **ICEKAP K** calcined and surface modified or treated kaolin clay are viable clay choices for when moisture-sensitivity or improved reinforcement are desired.

### COVIA CORP.

**SNOBRITE** air floated kaolin is a natural ultrafine kaolin offering semi-reinforcing, good color quality, effective TiO<sub>2</sub> spacing, and cost-effective rheology modifier with inherent or natural plasticity and thixotropy. **MINEX** functional filler made from nepheline syenite is proven to offer superior color development, tint retention, and durability to a broad range of adhesives & sealants.

### MAGRIS TALC

Magris Talc offers a range of products which are high-purity, functional additives ideal for adhesives, caulks, mastics, and sealants. **Mistron® RCS** is an excellent choice for demanding applications due to its hydrophobic nature, very low mineral solubility, and proven anti-corrosion performance. **Mistron® Vapor RE** is a high purity talc offering ideal rheology and performance.

### OMYA, Inc.

**OMYACARB & SNOWHITE** Calcium Carbonate (CaCO<sub>3</sub>) products modify rheology, improve bond strength and reduce water demand. Typical applications include construction, transportation, packaging, woodworking, tapes, and numerous industrial assembly applications.

### SOUTHEAST PERFORMANCE MATERIALS

SEPM muscovite mica are high purity, high aspect ratio, low bulk density, mica products with unique processing and grinding technology, both dry and wet ground, developed in-house and has several advantages over other mica grinding techniques.

### SIBELCO

**PORTAFIL** high purity, high whiteness Aluminum Trihydrate (ATH) mineral filler, **PORTARYTE** natural barytes (BaSO<sub>4</sub>) delivers a range of benefits for improving UV and chemical resistance with high specific gravity (4.5) and very low solubility. **CASIFLUX** Wollastonite (CaSiO<sub>3</sub>) for reinforcement. **Portafer M Magnetite**.

## PIGMENTS

### CHEMOURS

**Ti-Pure™ TiO<sub>2</sub>** solutions offer batch-to-batch consistency, color stability, and UV protection to sealants & adhesives. **Ti-Pure™ TiO<sub>2</sub>** adds durability, weather-resistance, and color opacity to all types of sealants.

### DCL

The global leader in the supply of color pigments and dispersions for the coatings industry. Organic Yellow, Orange, Red, Blue, Green, Violet pigments. Inorganic Aluminum Paste, Anticorrosive pigments, Bismuth Vanadate, Molybdate Orange & Chrome Yellow, Chromium Oxide Green pigments, Milori Blue, Ultramarine Blue & Violet, Carbon Black, Lanox Iron Oxides, Zinc Ferrite & Zinc Oxide, Special Effect pigments.

## RESINS

### HAUTHAWAY

Hauthane polyurethane dispersions are suggested for industrial laminating, pressure sensitive and solvent based adhesive applications. They are suitable for bonding substrates such as films, paper, aluminum foil, cardboard, and textiles.

### KURARAY AMERICA

**EXCEVAL™** is the polyvinyl alcohol of choice for water-resistant emulsions, for D3 adhesives and D4 adhesives. **EXCEVAL™** produces adhesive coatings with excellent gas barriers towards oxygen, nitrogen, and carbon dioxide ... even in high relative humidity.

### ZS INTERPOLYMER

**SYNTRAN®** water-based acrylic grades based on proprietary technologies that can be used in a variety of adhesive and sealant applications. In addition to conventional alkali-swellable and emulsion acrylics, ZS Interpolymer offers unique acrylic technologies: Self-Crosslinking technology gives superior water, stain and chemical resistance compared to traditional self-crosslinking acrylics, Bi-Modal anionic-cationic hybrid technology gives cationic properties with anionic compatibilities, such as tannin blocking, Shell-Core / Hybrid technology for improved film formation and physical properties.

## APPLICATIONS



### DISPERSING & WETTING ADDITIVES

Disperse, optimize, and stabilize pigments  
**Features:** Maximize & optimize pigment loading  
**Benefits:** Reduce dispersion time and raw material costs  
**Suppliers:** AFCONA Additives, Devine Chemical & ADM



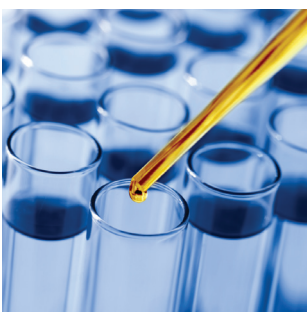
### RHEOLOGY MODIFIERS & THICKENERS

Rheology control and thickening  
**Features:** Thickening and control of rheological properties  
**Benefits:** Viscosity stability, preventing settling & syneresis, Anti-sag properties.  
**Suppliers:** Tolsa, PPG Silicas, MiniFIBERS, Devine Chemical



### PROCESSING ADDITIVES

Processing and appearance properties  
**Features:** Adjust flow, defoaming & deaeration  
**Benefits:** Production efficiency and product performance  
**Suppliers:** AFCONA Additives, Devine Chemical,



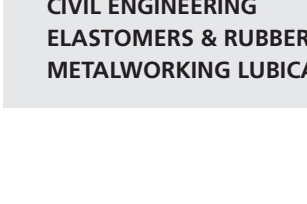
### SPECIALTY ADDITIVES

Physical & Performance enhancements  
**Features:** Adhesion promoters, coupling agents, cross-linkers, catalysts, modulus modifiers, moisture scavengers  
**Benefits:** Property and performance improvement  
**Suppliers:** Borica



### PIGMENTS / COLORANTS

Impart color and aesthetics  
**Features:** Absorb and reflect specific wavelengths of light to Impart color or lack thereof and special optical effects  
**Benefits:** Opacity, visibility, durability, and protection  
**Suppliers:** Chemours TiO<sub>2</sub>, DCL Inorganic & Organic Pigments



### FUNCTIONAL MINERAL PIGMENTS

Performance mineral fillers and pigments  
**Features:** Naturally occurring, sustainable minerals  
**Benefits:** Lower formulation costs, rheology control, durability & chemical resistance, gloss control, VOC compliance  
**Suppliers:** Burgess Pigment, Covia, Magris Talc, Sibelco, SEPM



### RESINS

Adhesive resins  
**Features:** Water-based Acrylic & Polyurethane dispersions, PVOH resins  
**Benefits:** Water-based formulation options requiring adhesion, transparency, water & chemical resistance, barrier properties  
**Suppliers:** Hawthaway, Kuraray, ZS Interpolymer



### TESTING EQUIPMENT & INSTRUMENTS

Formulation and Quality Control evaluation  
**Features:** Instrumentation for testing appearance and physical properties. Lab dispersers. Viscometers. Lab supplies i.e., drawdown charts, film thickness gauges, grind gauges  
**Benefits:** Formulation & product development property Verification and quality assurance  
**Supplier:** BYK Gardner Instruments

**dar-tech, inc.**

For 70 years, dar-tech has provided additives, functional materials, resins, and pigments to a wide variety of industries.

ADHESIVES & SEALANTS  
AGRICULTURE  
CIVIL ENGINEERING  
ELASTOMERS & RUBBER  
METALWORKING LUBRICANTS

PAINT & COATINGS  
PLASTICS  
PRINTING INK  
GRAPHIC ARTS

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