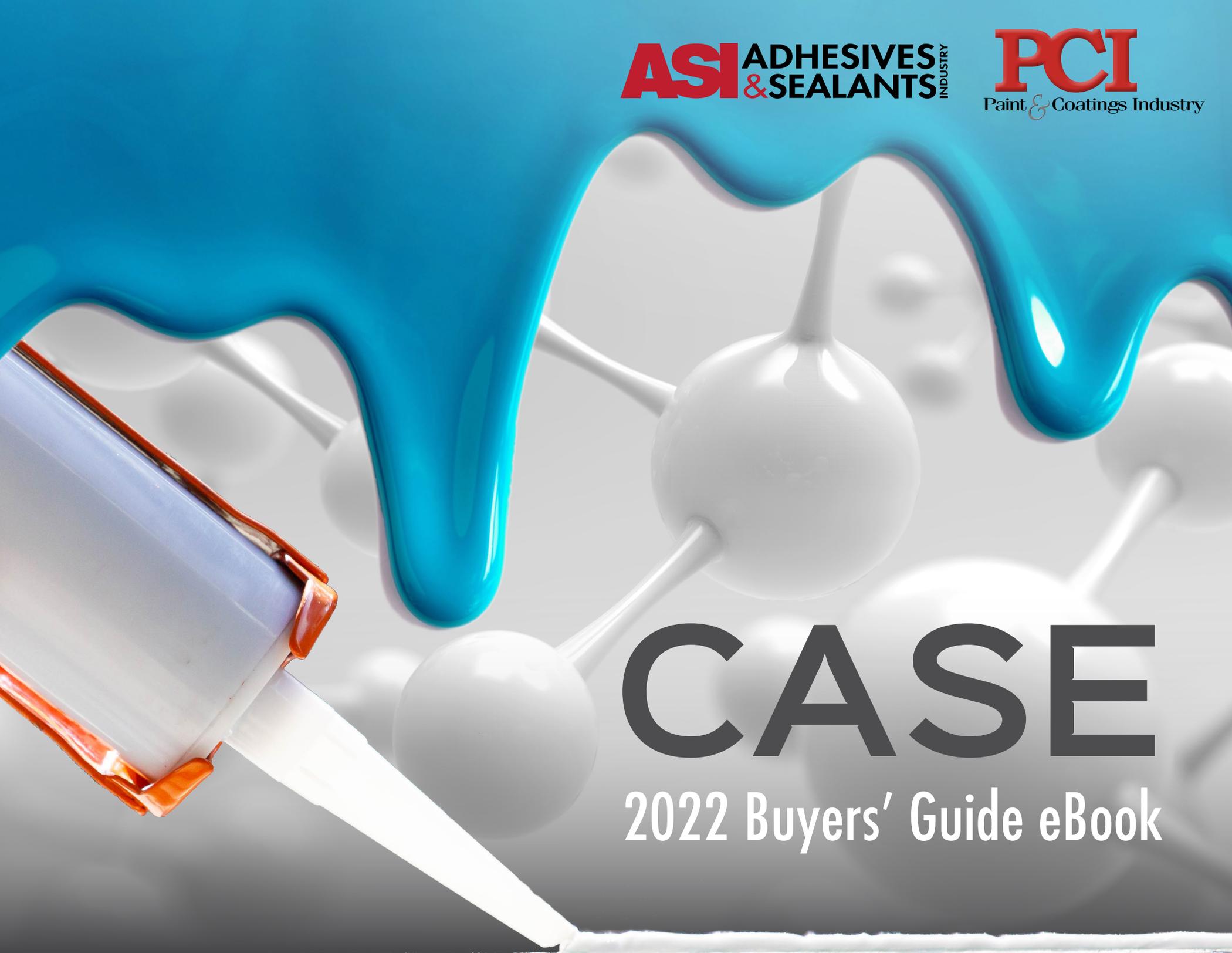


ASI ADHESIVES
& SEALANTS INDUSTRY

PCI
Paint & Coatings Industry



CASE

2022 Buyers' Guide eBook

Welcome to the *Paint & Coatings Industry* and *Adhesives & Sealants Industry* CASE Buyers' Guide eBook

As the go-to sources of information for the paint and coatings, and adhesives and sealants industries, **PCI** and **ASI** continually strive to make it easy for you, our readers, to connect to suppliers and services that will help you and your companies grow and succeed.

And so, we have developed this new eBook version of our annual Buyers' Guides that fits right in with today's digital reality that you experience every day. While our format has changed a bit to keep up with the new "normal," the reliable, up-to-date information these Guides provide is the most relevant in our industries.

We have organized this CASE eBook into these categories for easy reference:

- Additives
- Computer Software (Enterprise Solutions and Digital Lab Software)
- Consulting Services
- Containers, Packaging, and Material Handling
- Distributors
- Environmental Equipment and Services
- Finished Adhesives and Sealants
- Manufacturing Equipment
- Oils and Fatty Acids
- Pigments/Dispersions
- Polymers/Resins
- Solvents
- Test/Measurement Instruments and Services

This comprehensive resource is here to serve you 24/7. It will save you and your company time, and it will help keep you up to date with the latest technologies. Our staffs on **ASI** and **PCI** actively work with the industries' suppliers to keep their information current, so connecting with them will be productive and straightforward.

It is our hope that this eBook and the online listings will make your jobs easier and more productive. Thank you for your ongoing support and loyalty to both *Paint & Coatings Industry* and *Adhesives & Sealants Industry*!



Tom Fowler
Group Publisher

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ADDITIVES



COMPUTER SOFTWARE (ENTERPRISE SOLUTIONS AND DIGITAL LAB SOFTWARE)



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FINISHED ADHESIVES AND SEALANTS

MANUFACTURING EQUIPMENT



OILS AND FATTY ACIDS

PIGMENTS/DISPERSIONS



POLYMERS/RESINS



SOLVENTS

TEST/MEASUREMENT INSTRUMENTS AND SERVICES

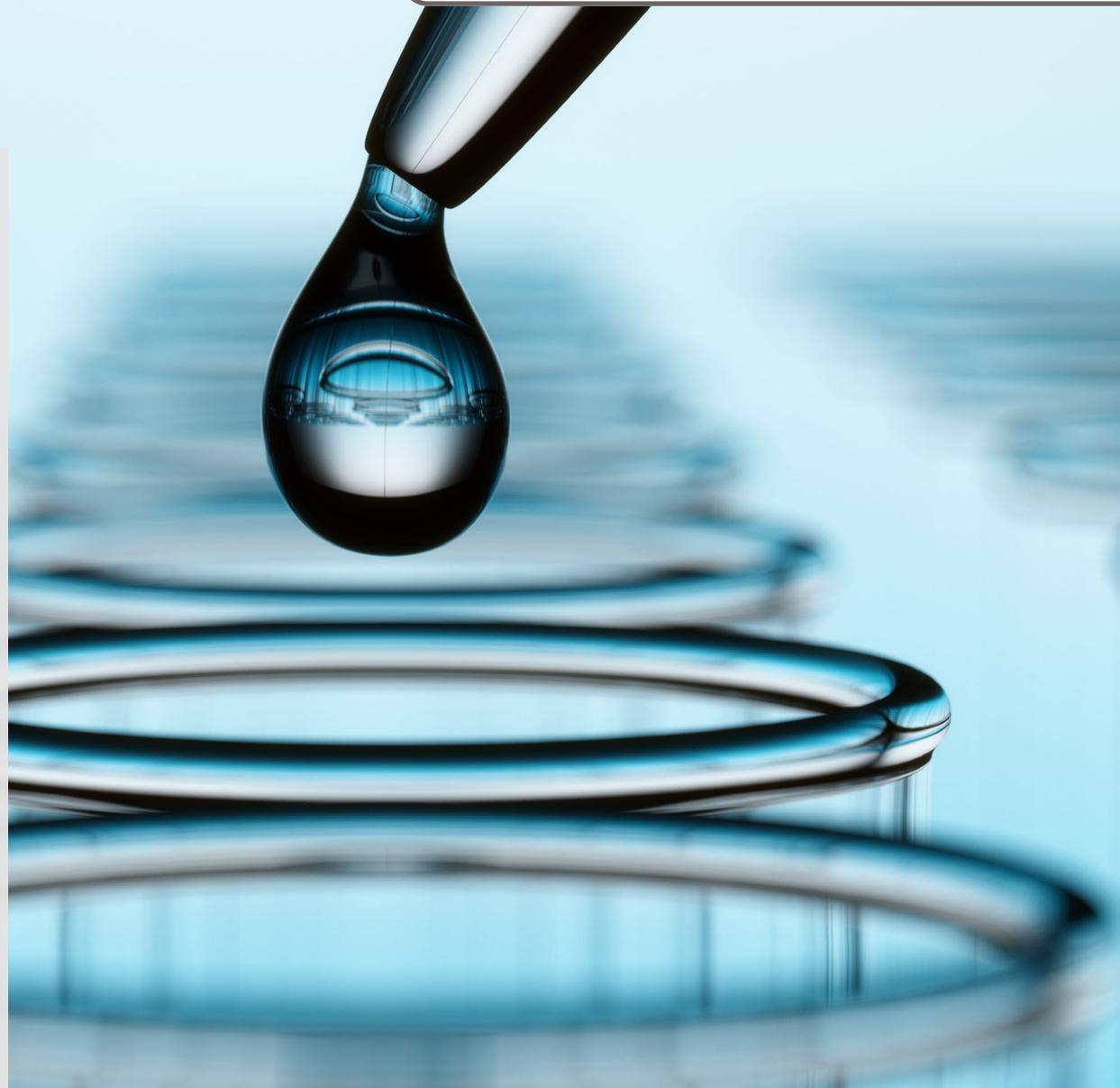


Though additives comprise a small percentage of a coating or adhesive formulation, their impact is significant. Additives contribute to ease of manufacture, stability of the coating or adhesive product in the package, ease of application, quality, and appearance.

Additive function is almost always specific in nature. In recent years, more multi-purpose additives have been developed, thus allowing the use of fewer additives in many formulations. Occasionally, the use of one additive will require the use of another to counter some undesirable effect of the first.

The focus on green technology, sustainability, nanotechnology, lower cost, and safer products has led to the introduction of newer additives and chemistries. With a larger number of additives available for a particular problem, formulators can find themselves in trouble if the wrong additive is used. Correct additive selection is important to success, and such selection is made through vendor assistance or years of experience.

(Source: J.V. Koleske, R. Springate, and D. Brezinski, "2013 Additives Handbook," *Paint & Coatings Industry*, June 2013.)



Credit: deliormanli, iStock/Getty Images Plus, via Getty Images



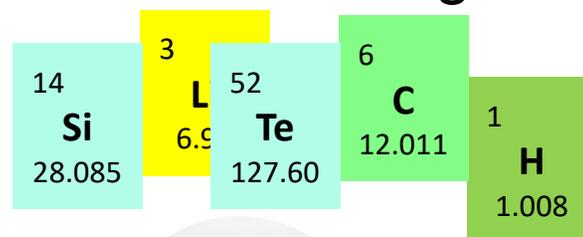
Using our proprietary technologies, Siltech develops, manufactures and markets a full line of unique organo-functional silicones. With over 30 years of experience, and two manufacturing facilities, we offer a broad portfolio of cationic, quaternary, alkyl and reactive silicones for many markets.

Our coating additives lower surface tension providing wetting, slip, release, and protection. We also offer Silmer® reactive silicones, functional polymers which react affecting flexibility over a broad temperature range, release, and other mechanical properties.

Recently, we have developed SH functional silicones and silicon resins to react with other polymers, monomers or surfaces. We have demonstrated this using the UV cured thiol-ene reaction providing materials with 200% elongation. The high MW and cross-link density of these materials results in very low vapor pressure or odor. Other functional DTQ resins are available.

Also new, Silmer TMS products offer alkoxy silane groups on the silicone polymer providing unique surface effects and cross-linking.

Heisenberg is Certain: Siltech Specialty Silicones Help You Break Today's Tougher Problems



**Your Technology
- Our Chemistry**



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225 Wicksteed Avenue
Toronto, ON, Canada
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www.siltech.com



MÜNZING is a global specialty additive supplier with highly experienced R&D and technical service personnel in Europe, the Americas and Asia.

Our complete range of specialty additives include:

- CERETAN® and LUBA-print® – micronized and coated waxes and wax dispersions
- DEE FO® and AGITAN® – Defoamers for printing inks, coatings, and adhesives
- EDAPLAN® – Leveling and universal dispersing agents
- METOLAT® – Wetting agents and dispersants for specific pigment groups
- SÜDRANOL® and WÜKONIL® – Wax emulsions
- TAFIGEL® – Rheology modifiers for printing ink and coatings formulations

MÜNZING offers technical service testing to focus on solving customer issues by duplicating the customer process and not by the generalization of formulation characteristics. We employ a wide range of test methods to reproduce the conditions that a coating experiences during manufacturing, packaging and application. MÜNZING's broad range of additive chemistries, our extensive knowledge of customer applications and our highly skilled lab resources, allow us to develop products that offer optimal performance.

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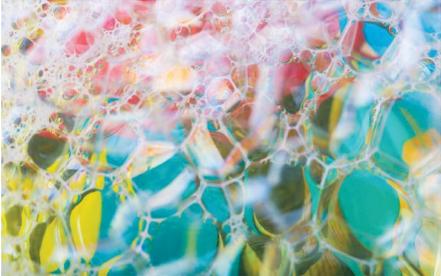


AERODISP® WF 7620 –
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for Waterborne Coatings

Discover Our Newest Products, Designed to Revolutionize Your Systems!

Discover Evonik – The leading specialty chemicals
supplier for Coatings & Adhesives

Outstanding New Defoamer
for Water-Based Printing Inks –
TEGO® Foamex 852



Novel Spherical Silica – SPHERILEX®
Technology Allows Formulators
to Boost Burnish Resistance

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of Wind Turbine Blades



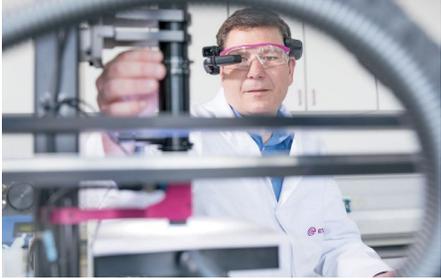
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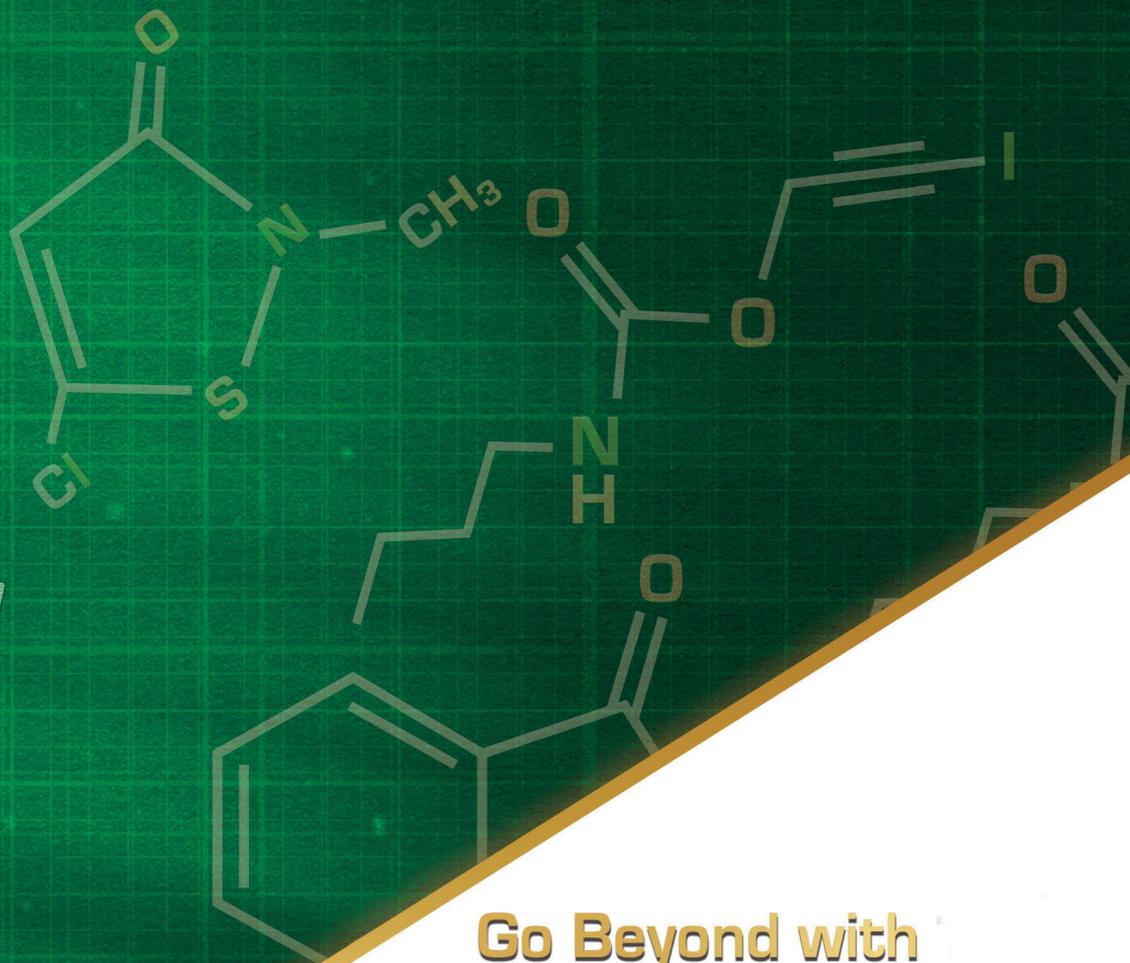
Evonik offers a wealth of raw materials for the coatings and adhesives industries. Thanks to our broad knowledge of the market and close cooperation with our customers, we can help coatings manufacturers enhance their formulations and respond to their customers' needs. Environmental pressures, technological innovations, production and performance challenges are but a few of the drivers our products are designed to address.

Our world-famous brands – ACEMATT®, AEROSIL®, SURFYNOL®, TEGO®, and ZEOLEX®, among others – comprise an extensive coating additives portfolio that consists of traditional additives (defoamers, deaerators, dispersants, etc.), matting agents, rheology modifiers, extenders, co-binders, and resins (incl. silicone-based and nanotechnology). These novel products for a variety of coatings, such as decorative coatings, industrial coatings, automotive coatings, and printing inks deliver real value for our customers.



Additionally, our crosslinkers business offers a broad range of products and competences for coatings and adhesives. As a pioneer in isophorone chemistry, our products cover the entire value chain: isophorone, diamine, as well as di-isocyanate and polyisocyanate. The crosslinkers product portfolio also contains a full range of amine curing agents for ambient and heat cure applications. These products are mainly used in industrial applications due to the mechanical strength, durability, chemical resistance and excellent adhesion properties in coatings, adhesives, and civil engineering.

Technology
Performance
Service
Sustainability
Partnership
VALUE



Go Beyond with

TROY

Preservatives | Performance Additives | Driers

Go beyond what you expect from a partner. With advanced preservatives & additives backed by expert technical service, regulatory guidance, and reliable supply, Troy delivers value.



troycorp.com

info@troycorp.com



Troy Corporation develops and manufactures performance materials for the coatings industry, as well as numerous additional markets. These materials are used in over 100 countries to produce high performing, cost-effective, and sustainable products. Troy's objective is to provide superior product technologies and services which satisfy customer needs and offer exceptional value.

Troy has one of the broadest portfolios for coatings manufacturers in the industry, enabling customers to achieve 360° Control of their coatings, from antimicrobial control to surface properties and application control. Troy produces over 400 preservatives, performance additives, and metal carboxylates at modern manufacturing facilities on 3 continents. Troy supports customers with worldwide sales offices, warehouses, and logistics facilities, as well as regulatory support and premier technical service.

Corporate Responsibility

Troy's policy is to manufacture, handle, and dispose of materials in an environmentally responsible manner. Troy is committed to being a responsible corporate citizen for the benefit of customers, employees, neighboring communities, and the environment. Troy has created an internal taskforce to identify areas for carbon footprint reduction throughout the company's operations globally.

Innovation

Troy is a company built on innovation. Troy invented IPBC, the leading dry-film preservative for efficacious, cost-effective, globally compliant, and environmentally responsible protection. Troy also introduced the first multi-active broad-spectrum dry-film preservative combining both anti-fungal and anti-algal performance. Troy is launching an expanding portfolio of advanced TIME controlled release dry-film preservatives, offering long-lasting coatings protection with additional environmental, handling, and stability benefits. Troy continues to develop and introduce numerous product technologies that have furthered the company's 360° Control concept.

Premier Services

Troy is a trusted resource for world-class services, enabling customers to Go Beyond what they expect from a supplier. Troy has field testing sites located around the world, as well as state-of-the-art technical service centers to provide a wide range of testing and support to customers, including microbiology, application services, and more. Additionally, Troy offers the unique TMMA microbial management program to assist customers to achieve contamination-free products and processes, and reduce total preservation cost.

Brands

Polyphase®	Dry-Film Preservatives
Troysan®	Dry-Film Preservatives
Fungitrol®	Dry-Film Preservatives
Mergal®	Wet-State Preservatives
Nuosept®	Wet-State Preservatives
Troykyd®	Defoamers
Troythix®	Rheology Modifiers
Troysol™	Substrate Wetting, Flow & Leveling Additives
Troysperse™	Dispersants
Troymax™ & Troycat™	Driers, Metal Carboxylates, & Anti-Skinning Agents
Powdermate®	Powder Coatings Additives

Why Gamble on Coating Quality?

Build a More Uniform Composite



The tried-and-true, consistent performance of **Min-U-Gel 400**[®] attapulgite provides the best performance value for:

Thixotropic Thickening

- Flow and Leveling
- Fast Recovery, No Fading

Suspension

- Stabilization
- Higher Solids / Low Viscosity

Syneresis Control

- Add-on-Top Fix
- Pigment Float & Flooding

Active Minerals, a trusted source of gellant attapulgite products, has a proven record of reliable supply for over 50 years. Our **Min-U-Gel** and **Acti-Gel**[®] additives ideally suspend and stabilize dispersed particles in liquids. That's a sure bet for instilling consistent quality in your products! Why gamble? Contact us now to learn how our tried-and-true products can make a difference.



Experience Outstanding Products,
Quality, and Service!

info@activeminerals.com
+1-410-825-2920

www.ActiveMinerals.com



Active Minerals International LLC (AMI) is a trusted source of gel-grade attapulgite and air-float kaolin clay-based mineral products. Our high customer satisfaction is founded in our intense focus on in-spec, on-time/every time that's supported by a robust QMS and world-class customer service.

Syneresis Control, Suspension, Rheology Modification and Much More...

For many decades **Min-U-Gel**[®] attapulgite thixotropic thickeners have been the best value for low-shear rheology control (flow & leveling, sag control, spatter resistance and more) in a wide range of liquid systems. They also suspend, control syneresis, reduce pigment floating and flooding, and improve tint strength, freeze-thaw and in-can stability. **Min-U-Gel 400** grade can partially replace and enhance cellulosic fibers and associative thickeners to lower cost and improve overall coating properties.

Acti-Gel[®] **208** purified magnesium aluminosilicate greatly improves stabilization and rheology of high solids systems. It allows an increase in solids, while improving flowability and maintaining viscosity and suspension. Its lower dosage and

easy dispersion is popular as a post-add ("add-on-top") fix for syneresis and pigment float and flooding problems, *without* changing rheology or making any formulary adjustments. In color concentrates, **Acti-Gel 208** provides improved flowability to aid droplet formation and improves long term stability. Its low dosage has no impact on color and 5-10% higher pigment loadings are possible without increasing viscosity.

Unlike other rheology modifiers, the viscosities generated by **Min-U-Gel** and **Acti-Gel** products do not fade or creep and are stable under extended shear, ionic and bacterial conditions, and all pH and temperatures.

Cost-Reducing Kaolin Extender Pigment

Air-float kaolins have long been used in a variety of coatings providing performance advantages in sheen & gloss control, enamel holdout, anti-settling, and sanding, but their low brightness restricted their use in light colored coatings.

Acti-Min[®] **PG** kaolin extender pigment, with its higher brightness and finer particle size, can successfully replace higher cost water-washed kaolin products. It provides three distinct advantages: lower raw material cost, higher sheen & gloss control and greater TiO₂ replacement.

Industries Served

Water and solvent-based liquid system such as: coatings, adhesives, sealants, tape joint compounds, drilling muds, agricultural chemicals, fertilizers, plaster, concrete, ceramic glazes, refractories and more.

Enterprise software, also known as enterprise application software (EAS), is computer software used to satisfy the needs of an organization rather than individual users. Services provided by enterprise software are typically business-oriented tools, such as online shopping, online payment processing, interactive product catalogues, automated billing systems, security, business process management, enterprise content management, IT service management, customer relationship management, enterprise resource planning, business intelligence, project management, collaboration, human resource management, manufacturing, occupational health and safety, enterprise application integration, and enterprise forms automation.

Digital lab software enables materials science and specialty chemical companies to modernize how they work in order to accelerate the development, sale, and servicing of their formulations. Digitized data can be captured, managed, consolidated, and analyzed to accelerate innovation, expand lab capacity, enable predictive chemistry, reduce errors, and bring products to market faster.

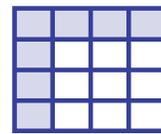
(Sources: Wikipedia, https://en.wikipedia.org/wiki/Enterprise_software; and Alchemy Cloud, <https://www.alchemy.cloud>.)



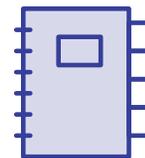
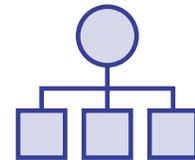
The Software Collaboration Platform for Modern R&D Teams

Manage all of your laboratory and materials information in a single, shareable, secure, and structured environment.

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AI

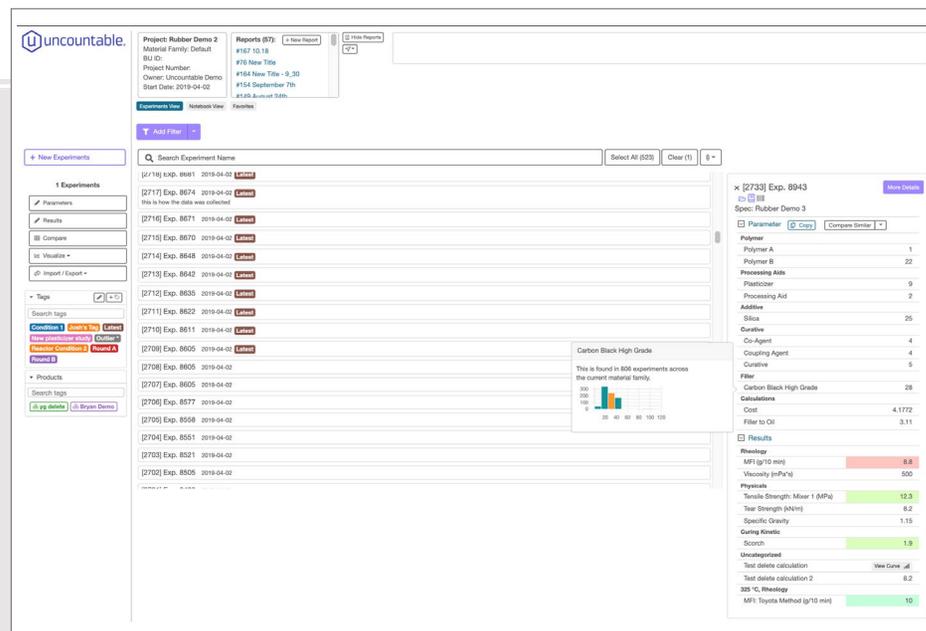




If you're looking for a better way to centralize R&D data within your lab, the Uncountable software platform is here to help. Uncountable acts as a replacement for traditional ELN and LIMS systems that often are either hard to use, or difficult to collaborate with. Uncountable's platform allows for collaboration across an entire organization, either within the same lab or across multiple labs.

Used by scientists at Behr Paint, Cooper Standard, Carbon, AGC, Cabot Corporation and many others, Uncountable enables you to manage all of your R&D work in a single, shared data repository in the cloud. All information is searchable, with visualizations available allowing you to discover which ingredients and process conditions lead to the output performance you're looking for.

In addition to its data repository, Uncountable also acts as a full featured ELN & LIMS combination, with a lab notebook with witnessing and signature capabilities, inventory modules, equipment tracking, and sample management. This information is tied together, enabling scientists to move seamlessly from entering their data, to visualizing it, to writing up reports for dissemination in their organization.



The biggest factor driving Uncountable is the success of its customers, which is reflected in what they say about the platform. Jean-Marc Veillé, Senior Global Materials Director at Cooper Standard writes that *“Uncountable gives us a **one-stop solution for all of the data our chemists need**, from raw materials to recipes, properties, and production information.”* Mike Recchio, President and CEO of Zeon Chemical, writes *“With the Uncountable platform, analysis and reporting that **used to take hours or days** now takes minutes.”* At Uncountable, we're proud of the work we've done, and will continue to do with these innovative teams.

For more information about Uncountable, including the ability to see a demo of the system, please visit our website at www.uncountable.com, or email info@uncountable.com.



Adhesives and coatings consultants have vast experience with these products and can provide a variety of services, including, but not limited to: market analysis, formulation assistance, process optimization, testing and evaluation, failure investigations, system recommendations, specification, and training.

(Sources: KTA-Tator, <https://kta.com/paint-and-coating-consulting/>; and The ChemQuest Group, <https://chemquest.com/>.)

Credit: metamorworks, iStock/Getty Images Plus, via Getty Images

CONTAINERS, PACKAGING, AND MATERIAL HANDLING

CLICK HERE TO VIEW ALL SUPPLIERS IN

ASI  **PCI** 

Various types of containers and packages are used to manufacture, transport, and apply adhesives and coatings. Depending on the material, the amount needed, and end use requirements, raw materials and finished coatings and adhesives are typically placed in bags, cans, pails, drums, bulk and intermediate bulk containers (IBCs), and tanks.

Finished coating and adhesive product packaging is a key factor, as it generally dictates the end users' dispensing or application method. Common types of packages include cartridges, chubs (also known as sausages), dual packs, syringes, and tubes.

Material handling is a broad term that encompasses activities related to material storage and the movement of materials and products throughout the manufacturing process (e.g., conveyors). Automation of some or all of these processes, depending on the size and complexity of the facility's operations, offers opportunities for efficiency improvements.

The relationship between chemical/raw material distributors and adhesives and coatings manufacturers is not just about product delivery. Today's distributors offer a broad range of services that continues to evolve to help players throughout the supply chain produce innovative products while addressing industry trends and various economic issues.

Distributors strive for collaborative relationships focused on mutual success. Some materials/chemicals suppliers may not have the resources available for in-house testing and formulation capabilities, new product development efforts, or personnel who are experienced in regulatory and compliance issues. Others may have had to reduce these activities due to economic factors. Whatever the reason, many distributors have responded to these trends by expanding their own facilities and expertise in order to offer needed services.

Additional potential benefits of working with a distributor can include inventory flexibility, access to local inventory, supply security, market analysis and visibility, supply chain expertise, and digitalization.





Barentz.

The global life science &
specialty ingredients distributor

**Always a
better solution.**

At Barentz we have a passion to deliver better life science ingredients and specialty chemical solutions to our customers around the world in the Human Nutrition, Pharmaceutical, Personal Care, Specialty Industrial, and Animal Nutrition markets. Driven by the powerful blend of knowledge, entrepreneurship and partnership we anticipate and act on future challenges and developments.



www.barentz-na.com

Barentz.

About Barentz

Barentz is a leading global life science ingredients and specialty chemicals distributor for the Human Nutrition, Pharmaceutical, Personal Care, Specialty Industrial, and Animal Nutrition markets. Headquartered in the Netherlands, Barentz distributes ingredients for products to small- and medium-sized enterprises and large customers globally. The Group sources branded specialty ingredients from leading manufacturers worldwide and its ingredients experts provide value-added technical support (including pre-mixing, blending, customized formulation and

testing) from its state-of-the-art, customized formulation centers and application laboratories in EMEA, the Americas and Asia-Pacific.

Established in 1953, Barentz has operations in more than 60 countries with a strong presence in Europe and Asia, and a growing presence in North America and Latin America. With a turnover of 1.85 billion the company employs around 1,750+ people worldwide and serves over 21,000+ customers. For more information, please visit: www.barentz-na.com.

DOWD & GUILD

Dowd and Guild Inc. has been serving the paint and coatings, ink, building products, adhesives and sealants, composites and plastics markets with the highest quality products for over 30 years. We cover the 11 states west of the Rocky Mountains, the southwestern states of Texas, Oklahoma, Louisiana, Arkansas, and Western Canada.

Our company has grown significantly since 1986, but our dedication to providing the highest level of customer service and growing our suppliers' business has not changed. We continually strive to develop relationships with high quality manufacturers, that will not only allow us synergy with our existing suppliers and customers, but will also help us expand into related markets. We are your Partners in Performance.



Photo: Marisa Spake on Unsplash

Expertise & Exceptional Service

From research to a perfect formula, we've got you covered

Dowd & Guild understands that a perfect formula begins by fully understanding what you are trying to accomplish.

Offering in depth technical expertise and an extensive line of premium, high quality chemical products, Dowd & Guild works to ensure you get the results you expect – providing unprecedented confidence that you

get the products you need when you need them.

Your Trusted Partner In Performance.
Dowd & Guild is a proven partner beginning with our first interaction throughout the entire process. View us as an extension of your team with our highly responsive, technical, service-oriented approach.

Representing leading principals and thousands of products:

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Specialty Raw Materials

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LINTECH INTERNATIONAL





Linteck International LLC is a leading national specialty chemical distributor of resins, monomers, additives, pigments and performance minerals. Since 1983, Linteck has partnered with world-class suppliers to meet the needs of customers in a wide variety of markets including agriculture, coatings, inks, plastics, rubber, adhesives, and composites. Linteck is ISO 9001:2015

certified, a Women's Business Enterprise National Certified company (WBENC), a proud member of NACD Responsible Distribution®, and C-TPAT verified through U.S. Customs for a secure international supply chain. With 12 regional warehouses and specializing in the paints and coatings industry, Linteck provides excellent service to customers nationwide.



More solutions. More capabilities. **More ways to innovate and grow.**

We're finding new ways to redefine chemical and ingredient distribution to keep our customers and suppliers ahead in their markets. We are investing in our value-added services, supply chain capabilities, next-generation digital tools, specialized market expertise, and deepening our technical assistance to solve your toughest challenges. With Univar Solutions, you've got an ally equipped with the capability and knowledge to help you innovate and grow.

Welcome to the new Univar Solutions.



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Unmatched Expertise to Drive Your Solutions

Univar Solutions focuses on winning through dedication to our customers and suppliers and a commitment to helping keep our communities healthy, fed, clean and safe. We are a leading supplier of chemicals and raw materials for coating, adhesive, sealant, and elastomer (CASE) applications that serve markets such as aerospace, building and construction, furniture, industrial, marine, packaging, roads, and more. With a growing portfolio of value-added services and a focus on real-world solutions, we help our customers save time and effort while addressing the many complex needs related to market challenges.

Whether operating on a global or regional level, our dedicated CASE team can consistently provide the comprehensive technical, regulatory, market trend, and sourcing support that customers need in the adhesives market. No other chemical and ingredients distributor can match our depth of knowledge, premier product portfolio from leading global suppliers, experience and reach, allowing customers to rapidly enter the market with new, innovative products at scale.

Working with the Univar Solutions CASE team as an extension of your business, you'll find:

- Experienced sellers who understand your business challenges in the adhesives market, helping you tailor the right solutions to help you develop innovative and efficient products



- Logistics know-how, with warehouses networked to serve you locally and a private fleet of safe, equipped trucks, supporting your continuity of business
- A comprehensive and expansive range of next-generation chemicals and ingredients used in a myriad of adhesives applications
- Expertise in safety and regulatory issues, including environmental regulations (e.g., emissions of volatile organic compounds, or VOCs)
- Custom solutions to formulation challenges, supporting your sustainability journey
- Innovative product technology emanating from our industry-leading Solution Centers. These laboratories accelerate product research and development and create cutting-edge formulations to improve quality and efficiency and meet the latest market trends, from standard to niche applications.

Visit UnivarSolutions.com and find out how our extensive distribution network, global reach, and unparalleled logistical expertise can provide you with a consistent and reliable source of supply, as well as the solutions you need to grow your business.

DISTRIBUTORS



Acme-Hardesty has evolved into a leading distributor of bio-based products and specialty ingredients for the CASE industry. At Acme-Hardesty, we've been supplying renewable, bio-based chemicals since our inception. We use the extensive reach of our global supply chain to meet the growing demand for high-quality products that are not only renewable - but that also offer long-term stability. Our approach includes partnering with manufacturers who implement the latest technologies, minimize their carbon footprint, and use sources that do not deplete limited resources.

Today, we've evolved into one of the largest distributors of castor and palm derivatives, specialty ingredients, and product options that are naturally and sustainably sourced. Our growing portfolio of bio-based ingredients to service the coatings, adhesives, sealants, and elastomers market has been developed to match our customers' needs and provide solutions based on their distinct challenges. We offer our customers high-quality, high-performing ingredients that add further functionality to their end products.

ICONIC

ingredients here.

Sustainable, bio-based ingredients for coatings, adhesives, sealants, and elastomers.

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- Emulsifiers •
- Oleochemicals •
- Performance Additives •
- Preservatives • Surfactants
- Thickeners •



Helping our customers build a brighter world

Brenntag Material Science makes every aspect of chemical distribution less complex for our customers and suppliers.

Through proof of concept formulation support, innovative supply chain solutions, and access to raw materials from world-class suppliers, we provide our customers improved commercialization time for new products. Providing innovative industry expertise across an assortment of specific applications is what we do best. Our raw material product offering categories include:

- Additives
- Crosslinkers & Catalysts
- Minerals & Extenders
- Pigments
- Resins
- Resin Modifiers
- Solvents
- Thixotrope/Rheology Modifiers
- Other Specialties

To learn more about our raw material product offering, visit www.brenntag.com.

Connecting**Chemistry**

BRENNTAG 



BRENNTAG

Brenntag Material Science (Coatings & Construction, Polymers, & Rubber) is intimately acquainted with your business needs. From providing advice on improving formulations to devising innovative supply-chain solutions, we deliver products and services which put you a step ahead of the competition.

Our team focuses on developing industry formulations for customers while bringing significant product development and application knowledge to the table. Brenntag's Coatings & Construction Technology & Innovation Center is run by an

experienced team of industry experts and chemists who are fully equipped to handle the latest formulation challenges and new application development. The center also provides raw material evaluations, product performance testing, and physical, subjective, and visual testing.

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Environmental equipment and service companies provide products that monitor air, water, soil, and solvent vapor; detect gas; and control pollution and collect dust. These companies also specialize in hazardous waste reclamation, lab decontamination, recycling, and disposal.

(Sources: Control Instruments Corp., www.controlinstruments.com; The CMM Group LLC, www.thecmmgroup.com; and Tradebe Environmental Services LLC, <https://www.tradebeusa.com/>.)

Credit: Dmytro Kuznietsov, iStock/Getty Images Plus, via Getty Images

FINISHED ADHESIVES AND SEALANTS

Finished adhesives and sealants are used in industries such as automotive, construction, packaging, aerospace, electronics, and medical to bond and protect product components. The choice of adhesive or sealant depends on numerous considerations related to the finished product's production method and required specifications.

In automotive applications, for example: "For adhesive suppliers and users, the selection of products and chemistries is based on multiple factors, including the materials to be joined, joint design assembly method (automated or manual, room temperature or heated dispense), and curing process (heated or cold curing). Further, the performance requirements of the adhesive/substrate interface (i.e., the joint) must be determined. Is the function bonding or sealing, rigid or flexible, crash or non-crash, or general assembly? Performance requirements must also be accounted for, whether the adhesive is located in the body structural assembly or in visible panels and hang-on parts where class A surfaces exist that cannot exhibit bond line read through (BLRT)."*

The properties of finished adhesives can be tailored through base chemistry selection and the incorporation of various additives. Common adhesive chemistries include acrylic, epoxy, rubber, methyl methacrylate, cyanoacrylate, polyurethane, silicone, and others.

(*Source: G. Moran, "Adhesives in Automotive Assembly," *Adhesives & Sealants Industry*, October 2020.)

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Numerous types of equipment are used throughout the production and application of adhesives and coatings. For example, mixers are commonly used to process raw materials during the manufacturing process. The objectives of mixing are to produce a mixture with a composition and/or particle size distribution that approaches the uniform state on a scale of size appropriate to the use of the mixture, in a manner that suits the subsequent processing operations.

Application equipment such as melters, meter/mix/dispensers (for two-component products), static mixers, guns, and syringes are used to apply adhesives. Equipment can often be designed for manual or automated processes.

Coating equipment is used to precisely apply adhesives, sealants, and coatings. The equipment needed depends on the specific coating method, such as: slot die; bar; coil; Meyer rod (also known as wire-wound rod); direct or reverse roll; reverse, direct, or offset gravure; knife-over-roll; curtain; calendaring; and more.

Many adhesives, sealants, and coatings require a curing step in order to achieve their final desired characteristics. The specific equipment needed (e.g., lamps, conveyors, ovens) depends on the material to be cured and the curing method, such as electron beam, LED, ultraviolet, infrared, or spot.

Additional types of equipment can facilitate blending, dispersing, filling, metering, converting, and more.

(Source: "Equipment Handbook," *Adhesives & Sealants Industry*, June 2021.)

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Oils have various functions depending on their ability to form films or alter various properties. Drying oils from vegetable oil or animal sources have been used as sole binders and modifiers for other resins (linseed, tung, and fish oils). Semi-drying vegetable oils are used primarily in the manufacture of other oxidizing resins (soya bean and safflower oils). Non-drying oils are used in plasticizing alkyds and in blends with other resins in baking systems (raw castor, coconut, and cottonseed oils). Mineral oils are used as basic building blocks in defoamers for latex paints or as a VOC-free non-volatile portion of water repellants. Silicone oils are used in surface lubricants, anti-blocking additives, and scratch/mar resistant additives.*

Synthetic or modified oils are manufactured to achieve certain properties. As such, they can offer optimized structural uniformity and reduced impurities. Oils produced from natural resources (e.g., coconut oil, castor oil, linseed oil, soybean oil, sunflower oil, tall oil) provide bio-based alternatives to traditional petroleum-derived oils.

A fatty acid is a carboxylic acid with a long unbranched aliphatic tail (saturated or unsaturated). Fatty acids (as well as their esters and blends) can be used as lubricants, surfactants, emulsifiers, texturizing agents, wetting agents, defoamers, anti-static agents, or stabilizing agents.



(*Source: J.V. Koleske, R. Springate, and D. Brezinski, "2013 Additives Handbook," *Paint & Coatings Industry*, June 2013.)



Pigments provide several properties to coatings and adhesives, including a solid base for binder reactions; resistance to ultraviolet light; and added color, texture, and physical properties. Pigments narrow down to organic and inorganic types. Organic pigments include carbon compounds and are responsible for a broad number of colors across commercial products. Common organic pigments from animal and vegetable origins include:

- Alizarin: Yellow, orange and red shades;
- Phthalocyanine: Blue and green shades;
- Quinacridone: Violet shades.

Inorganic pigments derive from mineral origins and are considered metal compounds. These pigments are siennas, umbers, and ochres that form within clays in the Earth. They can be synthetically created to produce signature colors such as “cobalt blue” and “titanium white.”*

Pigment dispersions are dry pigments dispersed in liquid material that are stabilized using resins or surfactants/additives to minimize reagglomeration, a phenomenon where the pigments come back together to form “lumps.” They can contain water or solvent, or they can be based on a resin that is liquid at room temperature. Pigment dispersions often have relatively high pigment concentrations and are used in additive quantities to impart color in a variety of products. The term “pigment dispersions” is often used synonymously with colorants, color concentrates, and pigment preparations.**

(Sources: *Brenntag, <https://www.brenntag.com/en-us/industries/coatings-construction/paint-pigments/>; and **Chromaflor Technologies, <https://chromaflor.com/pigment-dispersion-faqs/>)



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A vibrant orange background featuring various paint and dye containers (bottles, tubes, cans) in different colors (green, red, blue, purple, white) and splashes of paint. The ROHA and SIMPSONS logos are prominently displayed at the top. The main text reads 'SIMPSONS WORLD CLASS DYES & PIGMENTS' and lists product categories: 'PAINTS & COATINGS | PLASTICS HOUSEHOLD AND FD&C COLORS ROAD MARKINGS | INKS'.

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The term resin comes from *resinous*, a description of materials that are amorphous and brittle, yet soft and tacky. In some cases, resins provide tackiness and an increase in specific adhesion; in other cases, they provide film forming and a reduction in viscosity. When mixed with a polymer, a compatible resin will increase the glass transition temperature (T_g) and reduce viscosity or hardness.

The most common way to group resins is by the feedstock used to produce them: hydrocarbon resins, rosin resins, and terpene resins. Basic criteria narrow down the choice of resin for a particular application, and then a number of secondary filters are applied. Resin suppliers really sell two basic properties: compatibility and stability.

In most formulations, the polymer is the starting point of the mixture. This means that the resin must have a known and understood compatibility with the polymer and with other ingredients. Viscosity, color, and oxidative stability are important criteria. Not understanding these aspects can affect application and end-use properties, resulting in blocked nozzles, poor coatings, and failed or discolored adhesives and coatings. With the basic criteria of compatibility and stability in place, secondary filters come into play, including FDA clearances, odor, color, and cost.



(Source: "Raw Materials, Chemicals, Polymers and Additives Handbook," *Adhesives & Sealants Industry*, March 2021.)

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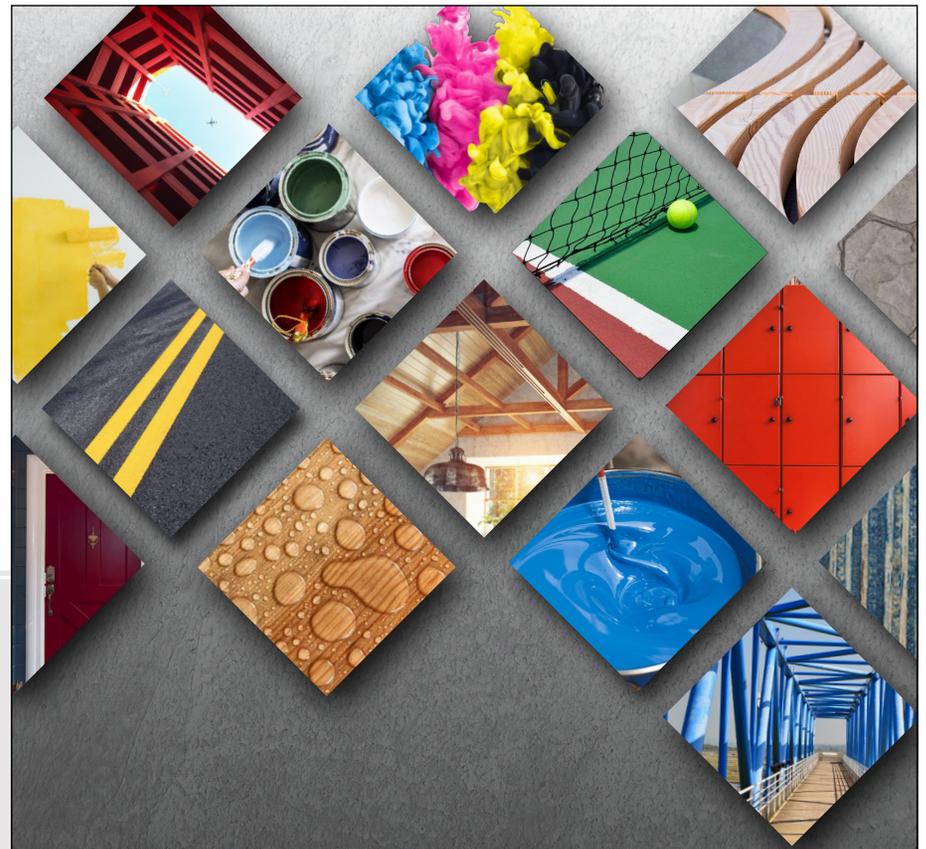
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In paint, solvents dissolve or disperse the components used in the formulation to achieve the desired consistency for application and to avoid clumps or globs. Solvents also facilitate drying and the formation of a durable paint film. Traditionally, solvents are organic compounds or oils that have high levels of VOC emissions.

In adhesives, organic solvents are used to dissolve or extract materials. The drying time of the adhesive tends to be far quicker than that of a water-based solvent, as the faster evaporation of the solvent allows the adhesive and any additives to be concentrated and exposed to set. As in paints, organic solvents can be much more effective in an adhesive formulation than a water solvent, but they have been the subject of concern given their toxicity and association with environmental issues like global warming.

Solvents are subject to a variety of federal and state regulations, including those that govern the industrial storage and disposal of hazardous wastes; workplace exposure limits; requirements for safe transport of chemical substances; and regulations pertaining to release of chemicals to air, land, and water.

(Sources: ChemicalSafetyFacts, <https://www.chemicalsafetyfacts.org/solvents/>; and Chemoxy International Ltd., <https://www.chemoxy.com/about-2/knowledge-hub/a-guide-to-solvent-based-adhesives/>.)

TEST/MEASUREMENT INSTRUMENTS AND SERVICES

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Various types of equipment are used to test or measure various aspects of coatings and adhesives, including color, flow, hardness, resistance to abrasion or scratching, bond strength, thickness, tack, weathering, etc. Companies can provide the instrumentation used for these measurements, or they can be contracted to provide various testing services in their own labs.

(Source: "Equipment Handbook," *Adhesives & Sealants Industry*, June 2021.)

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