CHEMPORT
Specialty Chemical Experts



PAINTS & COATINGS

We offer additives and ingredients that enhance abrasion resistance, gloss, water repellency, colour performance, bonding strength, thermal properties, rheology, and drying characteristics.

Our range of products includes silicates, COLLOIDAL-SIL™, silanes, siloxanes, siliconates, silicone performance materials, resins and binders, custom blends and dispersions, fillers, pigments, and more.

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INORGANIC REACTIVE BINDERS SILICATES & COLLOIDAL-SIL™ NANO-SOLS

SILICATES

Lithium Silicates

Lithium silicates are aqueous solutions resulting from combinations of lithium oxide (Li_2O) and COLLOIDAL-SIL™ (SiO_2) in varying proportions. The characteristics of these soluble silicates and COLLOIDAL-SIL™ combinations are that alkalinity levels are higher than COLLOIDAL-SIL™, but much lower than sodium- and potassium silicates. In addition, they possess extremely good film forming, hardening and binding properties enhancing abrasion, gloss, adhesion, and improved durability such as weather resistance and antisoiling properties. Ideally suited for concrete surface coatings, penetrating stains, specialty paints, primers as they are less alkaline and less soluble once they are dried, especially when modified with silane coupling agents. We offer various grades based on molar ratios and chemistries for formulating chemistries.

Potassium Silicate

Potassium silicate in combination with COLLOIDAL-SIL™ is the main binder in sol silicate paint. COLLOIDAL-SIL™ reduces alkalinity, lowering the pH and solubility of the binder, hence improving the weather resistance of the paint. The silicates ensures that the paint retains its aesthetic and functional properties for much longer than conventional paints. Thanks to its alkaline pH value, silicate offers natural protection against the proliferation of biological agents, such as mould or lichens.

Grades PS1; PS 1 HS; PS2; PS3; PS4; PS5; PS6; PS7 Available in various silica/potassium oxide ratios and concentrations.

COLLOIDAL-SIL™ /NANO-SOLS

COLLOIDAL-SIL™

Adding COLLOIDAL-SIL™ into your silicate paint formulation allows you to improve durability, weather resistance, colouring and anti-soiling properties as a binder. Potassium silicate in combination with COLLOIDAL-SIL™ is the main binder in sol silicate paint, industrial & decorative coatings as well as elastomeric cool roof coatings. Formulating with COLLOIDAL-SIL™s helps minimise internal stress, enhance abrasion resistance, improve film properties and adhesion, otherwise a potential problem in inorganic coatings. The anti-soiling properties of the sol-silicate paints are a result of COLLOIDAL-SIL™ making it very hard for dirt to adhere to the painted stone or masonry. All this resulting in inorganic coatings that provide long-lasting protection and vibrant colour—especially in decorative and silicate-based paints. We offer COLLOIDAL-SIL™ in a variety of grades ranging in nano-particle size, solids, pH and biocide-free or low biocide solutions.

Grades: (NS6)15% , (NS7)15% and 15% C, (NS8)20%, (NS20)40%

SILICONATES, SILOXANES & SILANES

SILICONATES

Potassium Methyl Siliconate

Potassium Methyl Siliconate (Potassium siliconate) is a waterdilutable solution developed to impart water repellency to a wide variety of porous surfaces such as sandstone, limestone, and red brick, grey brick, granite, ceramics etc. Available in 40% and 50% concentrations.

SILANES

Triethoxyoctylsilane

Triethoxyoctylsilane also known as n-octyltriethoxysilane is an alkyl silane used as a waterproofing agent in paints, coatings and surface treatments. It is ideal for use as a water repellent on masonry and concrete surfaces. Available in 97% solution.

Silane-560 (Gamma-Glycidoxypropyltrimethoxysilane)

Silane-560 is an epoxy functional silane coupling agent composed of Gamma-Glycidoxypropyltrimethoxysilane. Silane-560 is used to improve adhesion, strength and water repellency of glass-reinforced and mineral-filled thermosetting and thermoplastic coatings. It is suitable for epoxy, acrylic and polyurethane resins. We offer a wide variety of grades to suit different formulation needs.

Silane-570 (Gamma-Methacryloxypropyltrimethoxysilane)

Silane-570 is a silane coupling agent composed of Gamma-Methacryloxypropyltrimethoxysilane. Silane-570 is used to improve adhesion, strength and water repellency of glassreinforced and mineral-filled thermosetting coatings. It is suitable for acrylic, polyester and polyurethane resins.

STEARATES

Aluminium Stearate
Aluminium stearate transforms an oil paint into a gel. A small amount of aluminium stearate imparts a buttery consistency to oil paint. Aluminium stearate is not a filler, it is a stabiliser and conditioner, and is used in very small percentages, normally in the 2-5% range.

Zinc Stearate
Zinc Stearate emulsion has excellent dispersibility, strong adhesion, and active wear resistance. Commonly used wear-resistant coatings are polyurethanes and their modifications, including epoxy, polyurethane, and silicone-based coatings. Zinc stearate serves as a lubricant and prevents paint from getting too hard while it is drying.

Calcium Stearate
Calcium Stearate comes as a fine white non-toxic powder that has several different uses across industries. This product is primarily used as a flatting agent in paints and coatings. Calcium stearate is available as a powder or as a 50% dispersion and powder form.

FILLERS

Glass Microspheres
Chemport offers expanded glass microspheres for use in high-performance coatings, sealants, and specialty paints where weight reduction, thermal insulation, and improved texture are key. These cream-white microspheres are available in a wide range of granular sizes from ultra-fine 0.1–0.3 mm grades for smooth, thin-film applications to large-format 4–8 mm particles suitable for textured or insulating layers. With excellent freeze-thaw stability, compressive strength, and pH neutrality, our glass microspheres enhance formulation flexibility across both decorative and industrial markets.

Metakaolin
Metakaolin is a high-purity, thermally activated aluminosilicate derived from refined kaolinite clay, used as a functional filler and performance enhancer in paints, coatings, and sealants. Its fine particle size, high brightness, and pozzolanic activity contribute to improved opacity, surface hardness, scrub resistance, and film durability. Metakaolin is especially valued in waterborne systems for enhancing barrier properties and providing a matte finish without affecting application characteristics. It also offers low oil absorption and excellent chemical stability, making it a versatile alternative to traditional extenders such as talc and calcium carbonate.

RHEOLOGY ADDITIVES

METHOD™ Cellulose Ethers (MC, HEC, HPMC)
Cellulose ethers are commonly used in the paint and coatings as additives to improve the performance and properties of paints and coatings, emulsions. Some of the key cellulose ethers used in the paint industry include: Methylcellulose (MC): Methylcellulose is often used in water-based paints as a thickener and rheology modifier. We offer a full line of cellulose ethers (MC, HEC, HPMC) tailored for specific applications that improve water retention and enhance durability.

SILANOX™ Fumed Silica
Fumed silica, also known as pyrogenic silica, is a high purity, white colloidal powder. It provides thixotropy, anti- settling, antis-agging and thixotropy properties to paints and coatings. Fumed silica is available in a range of different surface area materials, as well as coated (hydrophobic) & uncoated (hydrophilic).

Precipitated Silica S200
Precipitated Silica S200 is a high-purity, ultrafine silica designed for matting and rheology control in coatings and inks. It offers excellent dispersibility, high surface area, and superior oil absorption capacity. S200 enhances surface smoothness, pigment stability, and mechanical durability across a wide range of solvent- and water-based formulations.

PIGMENTS

Titanium Dioxide
Titanium dioxide functions as a white pigment and opacifier, enhancing whiteness, UV resistance, tint strength, and gloss in paints and coatings. The addition of titanium dioxide results in excellent durability, UV resistance, whiteness, tint strength and gloss. We offer both anatase and rutile.

Zinc Oxide
Zinc oxide is a white powder with a high purity and very fine particle size and a high specific surface area, resulting in a readily dispersed and active product. This product contains very low levels of contaminants and has good UV absorbing properties. Paints containing zinc oxide powder have long been used as anticorrosive coatings for metals. They are especially effective for galvanised iron due to its ability to form a protective layer through basic oxides, hydrated sulphates, and carbonates protecting against corrosion and environmental damage. Also used as a white pigment in a variety of dry mixes, plastics, ceramics, adhesives, and sealants.

Iron Oxide Pigments
Durable, lightfast inorganic pigments suitable for a wide range of coating systems including architectural, industrial and protective coatings. Chemport iron oxides provide strong tinting strength, excellent dispersion and superior weather resistance for consistent, long-lasting colour performance.

Available Colours: Red, Yellow, Black, Orange, Brown, Green

EPOXY CURING AGENTS

Epoxy Hardener 6219
Epoxy Hardener 6219 is a low-viscosity, colourless, modified cycloaliphatic amine curing agent designed for use with epoxy resins at ambient temperature. It provides excellent chemical resistance, low colour development, and high yellowing resistance. The product is recommended for use in industrial flooring, clear and pastel coatings, adhesives, and tank linings.

Epoxy Hardener GP-225 General-purpose modified polyether amine epoxy hardener designed for use in coatings, casting and adhesive systems. This non-phenyl formulation offers low colour, low odour and excellent clarity, making it suitable for applications where appearance and long-term colour stability are critical.

GP-225 provides low viscosity for easy handling and good flow, combined with long potlife and balanced curing performance. The cured system delivers high gloss, good toughness and chemical resistance, supporting consistent performance across a wide range of epoxy formulations.

Suitable for use in decorative coatings, clear systems, encapsulation and general-purpose epoxy applications where a non-phenyl chemistry is preferred.

PAA 98 - Polyether Amine Accelerator
High-efficiency accelerator for epoxy resin systems. Provides faster cure response, improved low-temperature reactivity, and enhanced early hardness without compromising pot life. Ideal for coatings, adhesives, flooring, and composite applications requiring optimised crosslinking performance.

TR-200 (Road Marking Resin)
TR-200 is a modified natural thermoplastic resin developed for hot-melt road marking coatings. It provides strong adhesion to asphalt and concrete substrates while delivering fast drying, good flow, and levelling characteristics. The resin contributes to heat stability, durability, and long-term performance in thermoplastic marking systems.

Polypropylene Glycol (PPG)
Polypropylene Glycol (PPG) is a versatile polyol used as a key building block in polyurethane coatings. It enhances flexibility, adhesion, and resistance to water and chemicals, making it suitable for industrial and protective finishes. PPG also improves flow and levelling, delivering durable and uniform coating performance across diverse substrates.

CUSTOM BLENDS / DISPERSIONS

MICRO-DUR™
MICRO-DUR™ is a specialty organic–inorganic hybrid polymer dispersion composed of nano-silica, lithium silicate, and silicon in a resin matrix. The specifically engineered composition and self-cross-linking mechanism provides superior hardness, durability, adhesion, chemical and stain resistance to waterborne clear topcoats, varnishes, and stains.

SOLVENTS

Hexylene Glycol
Versatile solvent and coupling agent used in paints and coatings to support solubility, flow and formulation performance. Suitable for waterborne and specialty coating formulations.

Butyl Carbitol 99%
High-purity glycol ether solvent offering good solvency and controlled evaporation. Suitable for paints, coatings, inks and specialty formulations where effective solvency and formulation stability are required.

ORGANIC BINDERS

VINNSPERSE™
VINNSPERSE™ acrylic emulsions and re-dispersible polymer powders (RDPs) are used as primary binders in coatings, membranes, tile adhesives, mortars, and repair compounds. Emulsions offer excellent adhesion, water resistance, and flexibility for liquid systems including paints, primers, and elastomeric coatings. RDPs improve adhesion, cohesion, impact strength, and workability in dry-mix systems. Available in a wide range of chemistries including pure, modified, and flexible EVA-based grades.

OTHER ADDITIVES

Silicone Oil
Silicone oil, also known as polydimethylsiloxane and dimethicone, is used as a wetting agent and anti-foam agent in paints and coatings. Silicone oil is available in a range of viscosities and formulations.

Decabromodiphenylethane (DBDPE)
DBDPE is a broad-spectrum flame retardant. It is non-toxic and non-corrosive. It has good thermal stability and UV resistance.

Ammonium Polyphosphate Phase II (APP-II)
APP-II is a halogen free fire retardant used in a variety of water and solvent based paints and coatings. At temperatures above 300 °C APP-II decomposes to polyphosphoric acid which dehydrates polyols, carbohydrates and other ROH and RNH containing substances. Subsequently, the generated char is expanded by water and ammonia to form a foamed up solid heat protective barrier.

Chlorinated Paraffins
Chlorinated Paraffins are used as an additive that increases the hardness, brilliancy, water resistance and chemical resistance of paints, coatings and sealants. It is most suitable for marine paints, industrial flooring and swimming pools. Highly chlorinated paraffins have flame retardant properties. Chlorinated Paraffins are highly compatible with chlorinated polyethylene and chlorinated rubber.

Dibasic Ester
Dibasic esters are liquids composed of a mixture of dicarboxylic acids. Dibasic esters are excellent coating agents for metal surfaces. They are excellent striping agents for paints. Dibasic esters are non-flammable, readily biodegradable, non-corrosive and has excellent solvency. DBE 5 and other grades are available upon request.

Epoxidised Soybean Oil
Epoxidised Soybean Oil, also known as ESBO, is used as a pigment dispersing agent in paints and coatings.

Fumaric Acid
Fumaric Acid is used in paints and coatings to increase adhesion.

SPECIALTY ADDITIVES

Zinc Bromide
Zinc Bromide is a highly soluble inorganic salt used as a specialty additive in select coatings and surface treatment applications. It functions as a source of bromine for flame retardancy, a catalyst in polymer and resin systems, and a corrosive-control aid in primers and protective coatings.

TR-100 (Rosin Ester Tackifier)
TR-100 is a pentaerythritol rosin ester tackifier resin designed to enhance adhesion and cohesive strength in thermoplastic coating and adhesive systems. It improves compatibility with elastomeric binders while contributing to thermal stability and ageing resistance. TR-100 is suitable for specialty coatings, pressure sensitive systems, and hot melt formulations requiring balanced tack performance.

2-Ethylhexanoic Acid
Versatile carboxylic acid used as an intermediate in the production of metal carboxylates for paint and coating driers and other specialty coating additives.

SILICONE ADDITIVES

SILANOX™ L234A – Polyether-Modified Silicone Additive
Silicone additive providing improved slip, levelling, anti-crater and anti-blocking performance in water-based and solvent-based coating systems.

SILANOX™ 6019C – Ultra-High Molecular Weight Silicone Dispersion
Silicone dispersion designed to improve slip, abrasion resistance and scratch resistance while reducing surface friction, particularly in waterborne coatings and inks.

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