COATING ADDITIVES

PRODUCT OVERVIEW

EVONIK
POWER TO CREATE

VISIONARIES HAVE NO RIVALS.

That's what we believe. It's our motivation to discover superior solutions for the challenges of tomorrow in our ever-changing world. It's the passion exuding from our global network of employees and the confidence that we can deliver true value for your coating formulations.

As the Coating Additives business line of Evonik, we are a leading supplier of specialty additives for the coatings and inks industry. We boast decades of experience in the research and development of novel products for a variety of coating markets, such as decorative coatings, industrial coatings, automotive coatings, and printing inks. We are confident that we have the right solutions to deliver real value for our customers.

Our world-famous brands – ACEMATT®, AEROSIL®, SURFYNOL®, TEGO®, ZEOLEX®, and much more – comprise an extensive product portfolio that consists of traditional additives (defoamers, deaerators, dispersants, etc.), matting agents, rheology modifiers, extenders, co-binders, and resins (incl. silicone-based and nanotechnology).

We believe that responsible action and business success are mutually inclusive. The development of resource-efficient, eco-friendly coatings is crucial to the success of our industry and the sustainability of our planet. We actively contribute to this by offering additive solutions for eco-friendly coating systems, including waterborne, high solids, and UV-curing systems and powder coatings.

Join us in shaping the world of coatings.

COATING ADDITIVES OF EVONIK.
HOME OF ACEMATT®, AEROSIL®, SURFYNOL® AND TEGO®.
AND MUCH MORE.

ACEMATT®, ADDID®, AEROSIL®, AIRASE®, ALBIDUR®, CARBOWET®, DYNOL™, NANOCRYL®, NANOPOL®, SILIKOFTAL®, SILIKOPHEN®, SILIKOPON®, SILIKOPUR®, SILIKOTOP®, SIPERNAT®, SURFYNOL®, TEGO®, TEGOMER®, ZEOLEX®, ZETASPERSE®

ADHESION RESINS

The **TEGO® AddBond** range of products comprises special, widely compatible polyester resins which improve the adhesion of the most diverse coating and printing ink formulations.

Product	Waterborne	UV	Solventborne	Adhesion to metal	Adhesion to plastic	Fixation of Al-pigments	Remarks
TEGO® AddBond 1270	◐	●	●	●	◐	●	after neutralization suitable for waterborne formulations
TEGO® AddBond 2325	●	●	●	●	◐	◐	especially suitable for acrylic based coating systems
TEGO® AddBond LP 1600	●	◐	●	●	◐	◐	solvent-free
TEGO® AddBond LP 1611	●	◐	●	●	●	◐	solvent-free
TEGO® AddBond LTH	●	●	●	●	◐	●	solid

● not recommended ◐ recommended ● highly recommended

COMPATIBILIZERS

Pigment concentrates are widely used to achieve and adjust the wished color impression. Sometimes the compatibility between pigment concentrate and base paint is not optimal. Compatibilizers are low-molecular weight substances designed to improve the compatibility between pigment concentrate and base paint. A perfect color acceptance is achieved.

Product	Direct grind	Post addition	Addition to colorant	Color strength	Color acceptance	Carbon blacks	Organic pigments	Inorganic pigments/fillers
TEGO® Color Aid 7060	◐	●	○	●	●	●	●	●
TEGO® Color Aid 7065	◐	●	○	●	●	●	●	●
TEGO® Dispers 660 C	●	●	●	◐	●	◐	◐	●
TEGO® Dispers 662 C	●	○	◐	◐	●	●	●	◐

○ not recommended ◐ recommended ● highly recommended

DEFOAMERS/DEAERATORS

Non-aqueous formulations

Entrapped air should be avoided in solventborne coatings during production, filling into containers and application onto substrates. An air free film guarantees an excellent optical appearance and durability of the coating. The brand **TEGO® Airex** offers a range of products to the formulator finding the right balance of effectiveness against bubbles and compatibility with the solventborne coating system. All problems of entrapped air can be solved by using different technologies e.g. silicone-based and silicone-free.

Product	Solventborne	Radiation-curing	2-pack solvent-free	Pigmented	Clear	Spray application	Airless spray	Brush/roller application	Flexo/gravure printing	Floor coating
TEGO® Airex 900	◐	●	●	●	○	●	◐	●	●	●
TEGO® Airex 910	●	●	●	◐	●	○	○	◐	○	●
TEGO® Airex 920	◐	●	◐	●	●	◐	◐	○	●	●
TEGO® Airex 921	◐	●	◐	●	●	●	◐	○	●	◐
TEGO® Airex 922	◐	●	◐	●	●	◐	◐	●	○	●
TEGO® Airex 931	●	○	◐	●	●	●	◐	●	◐	◐
TEGO® Airex 944	●	○	●	●	◐	●	●	●	○	●
TEGO® Airex 962	●	●	◐	◐	●	●	◐	◐	○	◐
TEGO® Airex 963	●	◐	◐	●	◐	●	◐	●	◐	●
TEGO® Airex 971	◐	●	◐	●	●	◐	◐	◐	●	○
TEGO® Airex 990	●	◐	●	●	●	●	●	◐	○	●
TEGO® Airex 991	●	◐	●	●	◐	●	●	●	○	◐
TEGO® Foamex N	●	●	●	●	○	◐	●	●	◐	◐

○ not recommended ◐ recommended ● highly recommended

DEFOAMERS/DEAERATORS

Waterborne formulations

The prevention and elimination of foam is essential during production, filling and application of waterborne coatings. Foam free films guarantee an excellent optical appearance and durability of the coating. The brands **TEGO® Foamex, TEGO® Airex, SURFYNOL®** and **AIRASE®** offer a variety of products to the formulator finding the right balance of effectiveness against foam and compatibility with the coating system. The full spectrum of foam issues such as macro-foam, micro-foam or the need for fast foam breakdown can be solved by using different technologies e.g. silicone-based and silicone-free including the concept of molecular defoamers.

Product	Grinding stage	Let-down stage	Clear coatings	Low PVC coatings	High PVC coatings	Spray application	Airless spray	Brush/roller application	Flexo/gravure printing
AIRASE® 4500	●	●	●	●	◪	●	○	●	●
AIRASE® 4655	◪	●	●	●	◪	◪	○	◪	●
AIRASE® 5355	●	◪	◪	●	●	●	○	●	●
AIRASE® 5655	○	●	●	◪	○	●	○	◪	●
AIRASE® 5700	○	●	●	◪	○	◪	○	◪	●
AIRASE® 8070	◪	●	◪	◪	●	●	●	●	◪
SURFYNOL® DF-110 BC	◪	●	●	●	◪	◪	○	◪	●
SURFYNOL® DF-110 D	◪	●	●	●	◪	◪	○	◪	●
SURFYNOL® DF-110 L	◪	●	●	●	◪	◪	○	◪	●
SURFYNOL® DF-220	●	●	○	◪	●	●	○	●	◪
SURFYNOL® DF-58	●	●	○	◪	●	●	◪	●	●
SURFYNOL® MD 20	○	●	●	●	◪	●	◪	●	●

○ not recommended ◪ recommended ● highly recommended

Defoamers/deaerators – Waterborne formulations

Product	Grinding stage	Let-down stage	Clear coatings	Low PVC coatings	High PVC coatings	Spray application	Airless spray	Brush/roller application	Flexo/gravure printing
TEGO® Airex 901 W	●	◐	◐	◐	●	●	●	◐	●
TEGO® Airex 902 W	◐	●	●	●	◐	●	●	●	◐
TEGO® Airex 904 W	●	●	●	●	◐	●	●	◐	○
TEGO® Foamex 10	◐	●	○	◐	●	○	◐	●	○
TEGO® Foamex 12	○	●	○	○	●	○	○	●	○
TEGO® Foamex 1488	◐	●	◐	●	◐	●	○	●	●
TEGO® Foamex 20	◐	●	◐	●	●	○	◐	●	○
TEGO® Foamex 22	○	●	●	●	○	○	○	●	○
TEGO® Foamex 24	●	●	◐	◐	●	○	◐	●	○
TEGO® Foamex 26	●	◐	○	●	●	○	◐	●	○
TEGO® Foamex 28	◐	●	◐	●	○	○	◐	●	○
TEGO® Foamex 30	◐	●	○	◐	●	○	○	●	○
TEGO® Foamex 3062	●	○	○	◐	●	◐	○	●	●
TEGO® Foamex 32	●	◐	○	◐	●	○	○	●	○
TEGO® Foamex 34	●	○	○	○	●	○	○	●	○
TEGO® Foamex 800	○	●	●	◐	○	◐	○	●	◐

○ not recommended ◐ recommended ● highly recommended

Defoamers/deaerators – Waterborne formulations

Product	Grinding stage	Let-down stage	Clear coatings	Low PVC coatings	High PVC coatings	Spray application	Airless spray	Brush/roller application	Flexo/gravure printing
TEGO® Foamex 8030	◐	●	○	◐	●	○	○	●	◐
TEGO® Foamex 805 N	○	●	●	◐	○	●	○	○	●
TEGO® Foamex 810	●	◐	◐	◐	●	●	●	●	●
TEGO® Foamex 815 N	◐	●	●	●	◐	◐	○	●	◐
TEGO® Foamex 822	○	●	●	●	◐	●	○	●	●
TEGO® Foamex 823	◐	●	●	●	◐	●	◐	●	◐
TEGO® Foamex 825	◐	●	◐	●	●	●	◐	●	○
TEGO® Foamex 830	●	◐	◐	◐	○	●	○	○	◐
TEGO® Foamex 832	●	◐	○	●	◐	○	○	◐	●
TEGO® Foamex 833	●	◐	○	◐	●	○	○	●	●
TEGO® Foamex 835	●	○	○	○	●	○	○	●	●
TEGO® Foamex 840	●	◐	◐	●	◐	◐	◐	●	●
TEGO® Foamex 842	◐	●	◐	●	◐	●	●	◐	●
TEGO® Foamex 843	●	◐	○	◐	●	○	◐	●	●
TEGO® Foamex 844	●	●	◐	◐	●	●	●	◐	●
TEGO® Foamex 845	◐	●	◐	●	●	○	◐	●	●
TEGO® Foamex 855	◐	●	○	◐	●	○	◐	●	○
TEGO® Foamex 883	●	◐	○	○	●	○	◐	●	○
TEGO® Foamex 1497	◐	●	◐	●	◐	●	○	●	●

○ not recommended ◐ recommended ● highly recommended

FILM ENHANCERS

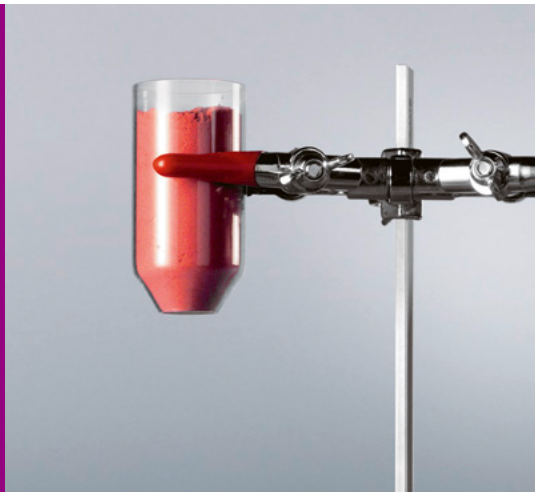
TEGO® VariPlus resins are frequently used to enhance the property profile of numerous coatings and printing inks. These non-saponifiable, neutral, hard resins have a low molecular weight, low inherent color and exhibit good light and heat resistance. Their outstanding compatibility with the most important main binders and their good solubility in the solvents commonly used in these systems make them highly versatile.

Product	Waterborne	Solventborne	UV	Hardness	Gloss	Adhesion	Pigment stabilization	Viscosity reduction	Increased drying speed
TEGO® VariPlus 1201 TF	○	●	○	●	●	●	●	○	●
TEGO® VariPlus AP	○	●	●	○	◐	○	○	◐	○
TEGO® VariPlus CA	○	●	○	○	●	◐	○	◐	○
TEGO® VariPlus DS 50	●	○	○	◐	◐	●	●	◐	●
TEGO® VariPlus SK	○	●	●	●	●	●	◐	●	○

○ not recommended ◐ recommended ● highly recommended

FREE-FLOW AGENTS

AEROXIDE® fumed oxides are well known for enhancing and optimizing manufacturing, quality, appearance and overall performance of powder coatings. Properties such as free flow, transfer efficiency and edge covering are improved by **AEROXIDE**® fumed oxides.



Product	Free flow	Positive charging	Negative charging	Moisture protection
AEROXIDE® Alu C	●	●	●	○
AEROXIDE® Alu C 805	●	◐	◐	●

GRINDING RESINS

Some of the **TEGO® VariPlus** products can be used as grinding resins in pigment concentrate formulations. They reduce the influence on coatings properties like mechanical resistance, give body to the formulation and/or enable the formulator to develop low VOC colorants.

Product	Waterborne	Solventborne	UV	Pigment wetting	Viscosity reduction	Gloss	Hardness	Remarks
TEGO® VariPlus LK	○	●	◐	●	●	●	◐	for low VOC colorants

○ not recommended ◐ recommended ● highly recommended

HYDROPHOBING AGENTS

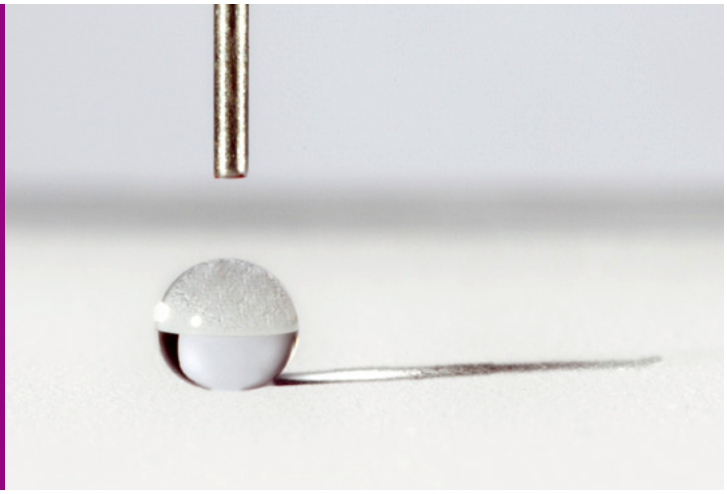
Hydrophobing agents are designed to make waterborne exterior paints hydrophobic. Used in silicone resin paints and plasters silicone resin emulsions like **TEGO® Phobe 1659** is characterirized by an efficient reduction of the water absorption. Linear polysiloxanes like **TEGO® Phobe 1409** lead to an excellent water beading effect on exterior coatings.

Product	Waterborne	Solventborne	Reduced water uptake	Water-beading effect	Impregnation	Primer	Architectural coatings and plasters	Silicate emulsion paints and plasters	Wood coatings	Printing inks	Remarks
TEGO® Phobe 1409	●	○	●	●	○	◐	●	●	◐	◐	for ecolabel compliant formulations, excellent beading effect
TEGO® Phobe 1500 N	◐	●	●	●	○	◐	●	●	○	◐	outstanding beading effect
TEGO® Phobe 1650	●	○	●	◐	○	◐	●	◐	◐	○	good early water-resistance
TEGO® Phobe 1659	●	○	●	◐	○	◐	●	●	◐	○	for ecolabel compliant formulations, low dirt-pick up
TEGO® Phobe 6010	○	●	●	●	●	●	○	○	◐	○	
TEGO® Phobe 6510	●	○	●	●	●	●	◐	◐	○	○	for impregnation of alkaline substrates
TEGO® Phobe 6600	●	○	●	●	●	●	◐	◐	◐	○	for impregnation of neutral to alkaline substrates

○ not recommended ◐ recommended ● highly recommended

INTERMEDIATES

The **TEGOMER®** range of products consists of linear, reactive polydimethylsiloxanes with various terminal functional groups. These are specially developed for modifying binders, such as polyurethanes, acrylic resins, polyesters and epoxides.



Product	Non-volatile content	Remarks
TEGOMER® D 3403	99 %	dispersing agent, non-ionic alternative to dimethylolpropionic acid
TEGOMER® E-Si 2330	99 %	polydimethylsiloxane epoxy-functional
TEGOMER® H-C 5002	100 %	hydroxy functional polyacrylate

MATTING AGENTS

The level of gloss is necessary for the appearance of coatings. The brand **ACEMATT®** offers a variety of products to the formulator finding the right balance of effectiveness for matting properties and easy incorporation into the coating system. The full spectrum of matting levels such as semi-gloss, mat and semi-mat can be reached by using the precipitated and thermal silica based matting agents.

Product	Waterborne	Solventborne	Radiation-curing or UV	Clears	Matting efficiency	Transparency	Viscosity	Smoothness/Haptic	Sedimentation behaviour	Remarks
ACEMATT® 3300	●	●	◐	●	●	●	◐	●	●	especially recommended for soft-feel applications
ACEMATT® 3400 NEW	●	●	◐	●	●	●	◐	●	●	especially recommended for soft-feel applications with high surface smoothness
ACEMATT® 3600	◐	●	●	●	●	●	●	●	●	
ACEMATT® 790	◐	●	○	○	●	○	○	◐	◐	especially recommended for coil and general industrial coatings
ACEMATT® 810	○	●	◐	○	●	◐	○	◐	◐	especially recommended for coil and general industrial coatings
ACEMATT® HK 125	○	○	○	○	◐	◐	○	○	◐	
ACEMATT® HK 400	◐	●	○	○	●	◐	●	○	◐	
ACEMATT® HK 440	○	●	◐	○	●	◐	○	○	◐	
ACEMATT® HK 450	○	●	○	○	●	◐	○	○	◐	
ACEMATT® OK 412	◐	●	◐	◐	●	◐	●	●	●	
ACEMATT® OK 500	◐	●	◐	◐	●	◐	●	●	●	
ACEMATT® OK 520	●	●	◐	●	●	●	◐	●	●	
ACEMATT® OK 607	◐	●	●	◐	◐	◐	●	●	●	
ACEMATT® OK 900	◐	●	○	◐	●	◐	◐	◐	●	
ACEMATT® TS 100	●	●	◐	●	●	●	◐	●	◐	

○ not recommended ◐ recommended ● highly recommended

MORE ADDITIVES

Product	Waterborne	UV	Solventborne	High solid	Remarks
ADDID® 230	●	○	●	●	anti-static additive to increase the conductivity of coatings
ADDID® 900	●	●	●	●	amino functional alkoxysilane for adhesion promotion on e. g. siliceous, oxidic, metallic and ceramic substrates
ADDID® 911	●	○	●	◪	epoxy functional alkoxysilane for adhesion promotion on e. g. siliceous, oxidic, metallic and ceramic substrates
AERODISP® W 7520	●	○	○	◪	
AERODISP® WR 8520	●	○	○	◪	
ALBIDUR® 1223	○	◪	●	●	especially recommended in combination with SILIKOPON® EF and SILIKOPON® ED
ALBIDUR® PU 5640	◪	○	●	●	
TEGO® Humectant 7000	●	○	○	○	
TEGO® Protect 5000 N	○	○	●	●	

○ not recommended ◪ recommended ● highly recommended

NANOCOMPOSITES

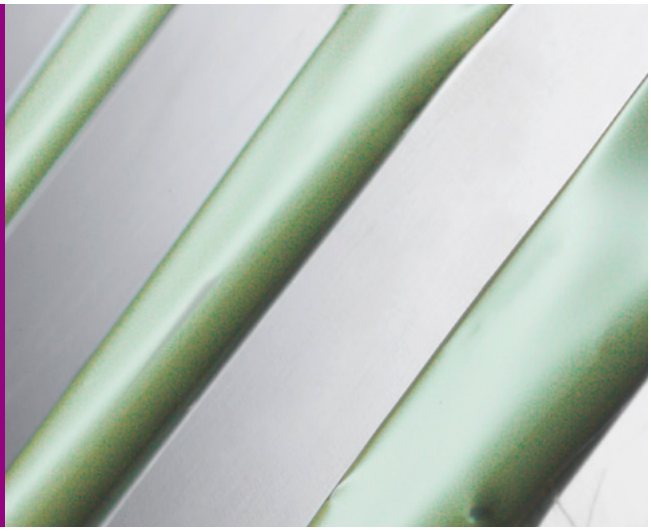
Evonik's silica nanocomposites are colloidal silica sols in various binders and solvents. These are low viscosity products that are highly transparent and do not exhibit any sedimentation. The fact that this can be achieved without impairing optical clarity makes silica nanocomposites particularly suitable for highly scratch-resistant, steel wool-resistant clear coats for plastics (e.g. PC, PMMA, PET) and wood.

Product	Monomer/Solvent	SiO_2-content [w/w%]	Dynamic viscosity, 25°C [mPas]	Nano-silica particle size	Waterborne	UV radical	UV cationic	Solventborne
NANOCRYL® C 130	cyclic trimethylolpropaneformalacrylate (CTFA)	50	275	20 nm	○	●	○	○
NANOCRYL® C 140	hexanedioldiacrylate (HDDA)	50	175	20 nm	○	●	○	○
NANOCRYL® C 150	trimethylolpropantriacrylate (TMPTA)	50	3,300	20 nm	○	●	○	○
NANOCRYL® C 153-10	ethoxylated trimethylolpropanetriacrylate (TMPEOTA)	50	1,000	20 nm	○	●	○	○
NANOPOL® C 750	water	50	25	20 nm	●	○	○	○
NANOPOL® C 764	methoxypropylacetate	50	20	20 nm	○	●	○	●
NANOPOL® C 784	n-butylacetate	50	20	20 nm	○	●	○	●
NANOPOX® C 620	EEC	40	4,000	20 nm	○	○	●	○

○ not recommended ◪ recommended ● highly recommended

PU THICKENERS

The **TEGO® ViscoPlus** product range consists of associative, polyurethane thickeners which satisfy the latest requirements of the industry. All **TEGO® ViscoPlus** products are liquid and free from organic solvents, alkylphenolethoxylates and organotin compounds. Each **TEGO® ViscoPlus** product has a different rheological profile. The various products combine easily with each other due to their excellent compatibility.



Product	Waterborne	Newtonian	Newtonian, high-shear	Pseudoplastic	Strong pseudoplastic	Remarks
TEGO® ViscoPlus 3000	●	●	◐	○	○	effective independent from pH value
TEGO® ViscoPlus 3010	●	●	●	○	○	effective independent from pH value, especially for ICI-viscosity
TEGO® ViscoPlus 3030	●	○	○	●	◐	effective independent from pH value
TEGO® ViscoPlus 3060	●	○	○	●	●	effective independent from pH value

○ not recommended ◐ recommended ● highly recommended

RADIATION-CURING ADDITIVES

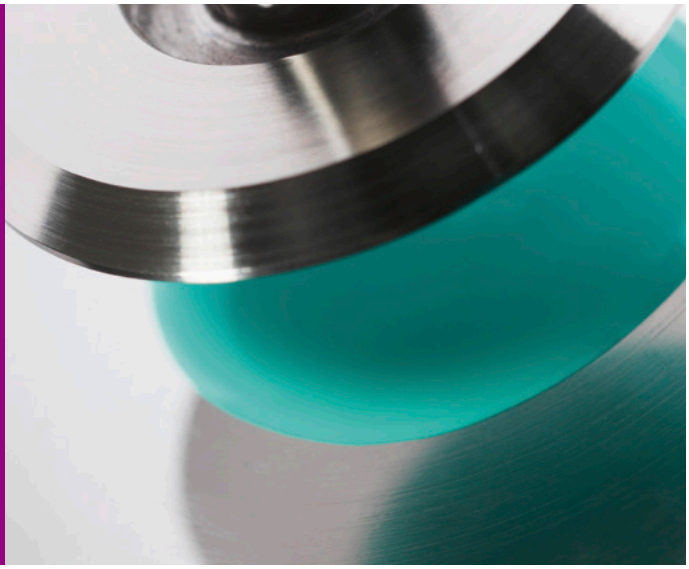
The **TEGO® Rad** product range consists of cross-linkable, organo-modified siloxane acrylates tailor-made for radiation-curing formulations. This range enables the ink and coatings formulators to introduce durable surface effects to their formulations. Especially, when stable slip and release-effects are desired the **TEGO® Rad** product range is the prime choice.

Product	Waterborne UV	UV	Compatible	Low foaming	Substrate wetting	Leveling	Slip	Release	Remarks
TEGO® Rad 2100	○	●	●	○	◐	◐	○	○	recoatable
TEGO® Rad 2200 N	●	●	●	○	●	●	●	○	
TEGO® Rad 2250	●	●	●	○	●	●	●	○	
TEGO® Rad 2300	○	●	●	◐	●	●	●	○	
TEGO® Rad 2500	○	●	●	●	○	○	●	●	
TEGO® Rad 2650	○	●	○	●	○	○	●	●	
TEGO® Rad 2700	○	●	○	●	○	○	●	●	
TEGO® Rad 2800	○	●	○	●	○	○	●	●	highest release

○ not recommended ◐ recommended ● highly recommended

SILICA-BASED RHEOLOGY CONTROL ADDITIVES

The rheological properties of paints and coatings can be regulated according to the needs with either hydrophilic or hydrophobic **AEROSIL®** grades. Added amounts of 0.3–1.0 %, based on the total formulation, are typical in nearly all solvent and waterborne systems, as well as in high solids coatings.
The incorporation of **AEROSIL®** particles into a coating generally produces a pseudoplasticity that is often linked with a thixotropic effect.



Product	WBC	SBC	Radiation-curing	Rheology control	Scratch resistance
AEROSIL® 200	◐	●	●	●	○
AEROSIL® 300	●	●	◐	●	○
AEROSIL® 380	◐	◐	◐	●	○
AEROSIL® R 202	○	●	○	●	○
AEROSIL® R 208	○	●	○	●	○
AEROSIL® R 805	○	●	○	●	○
AEROSIL® R 812	○	●	○	●	○
AEROSIL® R 812 S	○	●	○	●	○
AEROSIL® R 816	●	◐	○	◐	○
AEROSIL® R 972	●	●	○	●	○
AEROSIL® R 974	●	●	○	●	○

○ not recommended ◐ recommended ● highly recommended

SILICONE HYBRID RESINS

SILIKOPON® resins with an ultra-low VOC content, free of isocyanate, provide magnificent chemical resistant coatings with very good gloss and color retention. An excellent top-coat binder for high-end two layer anti-corrosion coatings. Due to the outstanding chemical and mechanical resistance, they are perfect resins for heavy duty finishes.
SILIKOTOP® is a binder system designed for use in high solids systems and top coats. It has a very low VOC content, processing viscosity, and solvent demand. **SILIKOTOP®** is also effective as co-binder.

Product	Non-volatile content	Remarks
SILIKOPON® EC	53 %	stoving system, solventborne, for stoving enamels (heat resistant up to 650 °C, depending on formulation), excellent adhesion, and resistance to solvents
SILIKOPON® ED	98 %	for 2-pack isocyanate-free curable high solids topcoats with excellent color and gloss retention, outstanding anti-corrosion and mechanical resistance
SILIKOPON® EF	98 %	for 2-pack isocyanate-free curable high solids top coats with a low VOC content (100-250 g/l), with good corrosion, excellent gloss, weathering resistance, and anti-graffiti effect
SILIKOTOP® E 900	90 %	top coats, enhanced flexibility, tough elasticity
SILIKOTOP® E 901	90 %	top coats, excellent weather resistance, also for direct-to-metal applications

SILICONE RESINS

High heat resistant up to 850°C.
SILIKOPHEN®, pure air drying silicone resins with a good compatibility with other binders, providing excellent corrosion protection. For ovens, barbecues, mufflers, exhaust coatings, and industrial facilities, e. g. pipelines.

Product	Non-volatile content	Active content	Remarks
SILIKOPHEN® AC 1000		100 %	solvent-free, ambient curing, good flexibility during the heating and the cooling process
SILIKOPHEN® AC 900		90 %	high solids, solventborne, ambient curing, good flexibility during the heating and the cooling process
SILIKOPHEN® P 40/W	50 %		water-reducible, good compatibility with organic resins
SILIKOPHEN® P 50/X	50 %		solventborne, good air-drying
SILIKOPHEN® P 80/X	80 %		solventborne, good air-drying, for low VOC formulations

SILICONE MODIFIED PU EMULSIONS

SILIKOPUR® is a waterborne, silicone-modified 1-pack polyurethane emulsion. It provides very flexible coating systems without any tackiness. **SILIKOPUR®** generates fast drying films at ambient temperature with excellent adhesion on many substrates. Additionally, it boosts the abrasion resistance with flexible grinds.

Product	Silicone content	Properties
SILIKOPUR® 8081	33 %	waterborne silicone modified polyurethane emulsion, high flexibility

SILICONE POLYESTER RESINS

Heat resistant up to 250°C.
With **SILIKOFTAL®** resins, Evonik offers a wide range of silicone polyesters for decorative applications. Magnificent gloss retention, chemical resistance (alkaline detergents), and FDA-compliance are their main features.

Product	Silicone content	Remarks
SILIKOFTAL® HTF MPA/MBA	50 %	High flexibility and low thermoplasticity. Product can be used in compliance with FDA 175.300 and/or BfR 15.*
SILIKOFTAL® HTL 2/MPA	50 %	High gloss, low thermoplasticity and good dishwasher detergent resistance. Product can be used in compliance with FDA 175.300 and/or BfR 15.*
SILIKOFTAL® HTL 3	30 %	Very good yellowing resistance up to 200°C, very good boiling water resistance. Product can be used in compliance with FDA 175.300 and/or BfR 15.*
SILIKOFTAL® HTT	80 %	Retains hardness from room temperature to 150°C. Longterm heat resistance up to 250°C good detergent resistance. Product can be used in compliance with FDA 175.300 and/or BfR 15.*
SILIKOFTAL® NON-STICK 60	80 %	For release coatings. Properties similar to SILIKOFTAL(R) HTT. Product can be used in compliance with FDA 175.300 and/or BfR 15.*

* Products can be subject to any applicable limitations. For detailed information, please refer to our RDS.

SLIP AND FLOW ADDITIVES

Slip and flow additives improve the flow/leveling and optical appearance. Siloxanes prevent cratering. Slip and anti-blocking of a coating can be adjusted.

Product	Waterborne	Solventborne	UV	Compatible	Low foaming	Recoatable	Levelling	Slip	Release	Antiblocking	Remarks
TEGO® Flow 370	○	●	●	●	●	●	●	○	○	○	
TEGO® Flow 375	○	●	◪	●	◪	●	●	○	○	○	
TEGO® Flow 425	●	●	●	●	○	●	●	◪	○	○	
TEGO® Flow 460 N	○	●	○	◪	●	●	●	○	○	○	
TEGO® Flow ATF 2	○	●	○	○	◪	○	○	◪	○	○	anti-crater effect
TEGO® Glide 100	●	●	●	●	○	●	●	●	○	○	
TEGO® Glide 110	●	●	●	●	○	○	◪	●	◪	◪	anti-crater effect
TEGO® Glide 130	◪	●	●	●	○	○	◪	●	○	○	
TEGO® Glide 407	○	●	○	◪	●	○	●	●	●	●	
TEGO® Glide 410	●	●	◪	●	○	○	●	●	●	●	
TEGO® Glide 432	◪	●	●	●	◪	◪	●	●	●	◪	
TEGO® Glide 435	●	●	●	◪	◪	○	●	●	◪	◪	
TEGO® Glide 440	●	●	◪	●	○	○	●	●	◪	◪	
TEGO® Glide 450	●	●	◪	●	○	●	●	●	◪	○	
TEGO® Glide 466	◪	●	○	◪	○	○	○	●	◪	◪	anti-crater effect
TEGO® Glide 490	●	○	○	◪	◪	◪	○	●	●	●	
TEGO® Glide 492	●	○	○	◪	◪	◪	○	●	●	●	
TEGO® Glide 494	●	○	○	◪	◪	◪	○	●	●	●	
TEGO® Glide 496 NEW	●	●	◪	●	○	●	●	●	●	●	anti-crater effect
TEGO® Glide A 116	○	●	○	●	○	○	●	●	●	●	
TEGO® Glide B 1484	○	●	○	◪	●	●	●	◪	○	○	
TEGO® Glide ZG 400	●	●	●	●	○	○	●	◪	○	○	

SPECIALTY FILLERS

SIPERNAT® and **ZEOLEX®** are specialty fillers for replacement of TiO_2 as well as improvement of film properties like hiding power, touch-up and burnish resistance in water-based formulations.

Product		Solventborne	Waterborne	Hiding power	Touch-up properties	Sheen	Wet scrub resistance	Remarks
SIPERNAT® 820 A		◐	●	●	●	●	◐	highest whiteness
ZEOLEX® 80	NEW	◐	●	●	●	●	◐	additional matting effect in architectural coatings
ZEOLEX® 98	NEW	◐	●	◐	◐	○	●	
ZEOLEX® 323	NEW	◐	●	◐	◐	●	●	
ZEOLEX® 325	NEW	◐	●	●	◐	◐	◐	

○ not recommended ◐ recommended ● highly recommended

SUBSTRATE WETTING ADDITIVES

Substrate wetting additives enable uniform wetting for coatings and printing inks even on very low energy or contaminated surfaces. Good wetting is a fundamental prerequisite for optimum adhesion. Defects in the coating surface such as cratering and poor leveling are minimized or improved.

Product	Waterborne	UV	Solventborne	Silicone-free	Static surface tension	Dynamic surface tension	Anti-crater effect	Defoaming	Remarks
DYNOL™ 360	●	◐	◐	●	●	●	●	●	
DYNOL™ 604	●	◐	◐	●	●	●	●	●	
DYNOL™ 607	●	◐	◐	●	●	●	●	◐	
DYNOL™ 800	●	◐	◐	●	●	●	●	●	
DYNOL™ 810	●	◐	◐	●	●	●	●	●	
DYNOL™ 960	●	◐	◐	○	●	●	●	○	
DYNOL™ 980	●	◐	◐	○	●	●	●	○	
SURFYNOL® 104	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 A	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 BC	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 BG52	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 DPM	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 E	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 H	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 PA	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 PG 50	●	◐	●	●	●	●	◐	●	
SURFYNOL® 104 S	●	○	○	●	●	●	◐	●	for powder coatings

○ not recommended ◐ recommended ● highly recommended

Product	Waterborne	UV	Solventborne	Silicone-free	Static surface tension	Dynamic surface tension	Anti-crater effect	Defoaming
SURFYNOL® 107 L	●	○	●	●	●	●	◐	●
SURFYNOL® 2502	●	●	◐	●	●	●	○	●
SURFYNOL® 355	●	○	◐	●	●	●	○	○
SURFYNOL® 420	●	◐	●	●	●	●	◐	●
SURFYNOL® 440	●	◐	●	●	●	●	◐	●
SURFYNOL® 465	●	◐	●	●	◐	◐	○	○
SURFYNOL® 485	●	◐	●	●	◐	◐	○	○
SURFYNOL® 485 W	●	○	○	●	◐	◐	○	○
SURFYNOL® AD01	●	●	●	●	●	●	◐	●
SURFYNOL® PSA 336	●	○	○	●	●	●	◐	○
SURFYNOL® SE	●	○	○	●	●	●	◐	●
SURFYNOL® SE-F	●	○	○	●	●	●	◐	●
TEGO® Twin 4000	●	◐	●	○	●	○	●	●
TEGO® Twin 4100	●	◐	●	○	●	○	●	○
TEGO® Twin 4200	●	◐	◐	○	●	○	●	○
TEGO® Wet 240	●	○	◐	○	●	○	◐	○
TEGO® Wet 250	●	○	◐	○	●	○	●	○
TEGO® Wet 251	●	○	◐	○	●	○	●	○
TEGO® Wet 260	●	◐	◐	○	●	○	●	○
TEGO® Wet 270	●	●	●	○	●	○	●	○
TEGO® Wet 280	●	○	●	○	●	○	●	○
TEGO® Wet 285	●	○	◐	○	●	○	●	○
TEGO® Wet 500	●	●	◐	●	○	●	○	◐
TEGO® Wet 505	●	◐	◐	●	○	●	○	●
TEGO® Wet 510	●	◐	○	●	○	●	○	◐
TEGO® Wet 550	●	○	◐	●	○	◐	○	○
TEGO® Wet KL 245	●	●	●	○	●	○	●	○

○ not recommended ◐ recommended ● highly recommended

WETTING AND DISPERSING ADDITIVES

Aqueous formulations

Our wetting and dispersing additives for aqueous formulations ensure fast and efficient wetting and long lasting stabilization of pigments and fillers in water-based formulations. A broad range of products is available suitable for many different applications. The range consists of non-ionic and anionic additives.

Product	Direct grind	Resin-containing pigment conc.	Resin-free pigment conc.	Pigment wetting	Pigment stabilization	Carbon black	Organic pigments	Inorganic pigments/fillers	Matting agents	Remarks
CARBOWET® 106	●	●	◪	●	◪	●	●	◪	○	co-dispersant
CARBOWET® 109	●	●	◪	●	◪	●	●	◪	○	co-dispersant
CARBOWET® 138	●	●	◪	●	◪	●	●	◪	○	co-dispersant
CARBOWET® GA-100	●	●	●	●	○	●	●	◪	○	grind aid
CARBOWET® GA-200	●	●	●	●	○	●	●	◪	○	grind aid
CARBOWET® GA-210	●	●	●	●	○	●	●	◪	○	grind aid
CARBOWET® GA-211	●	●	●	●	○	●	●	◪	○	grind aid
CARBOWET® GA-221	●	●	●	●	○	●	●	◪	○	grind aid
TEGO® Dispers 650	◪	●	●	●	●	●	●	○	○	
TEGO® Dispers 651	◪	◪	●	◪	●	●	●	●	○	for universal colorants
TEGO® Dispers 652	◪	◪	●	◪	●	●	●	●	○	for universal colorants
TEGO® Dispers 653	◪	◪	●	◪	●	●	●	●	○	for universal colorants
TEGO® Dispers 655	◪	●	●	◪	●	○	◪	●	●	for universal colorants
TEGO® Dispers 656	◪	●	●	◪	●	○	◪	●	●	for universal colorants

○ not recommended ◪ recommended ● highly recommended

Product	Direct grind	Resin-containing pigment conc.	Resin-free pigment conc.	Pigment wetting	Pigment stabilization	Carbon black	Organic pigments	Inorganic pigments/fillers	Matting agents	Remarks
TEGO® Dispers 715 W	●	○	○	◪	●	○	○	●	○	direct grind of emulsion paints
TEGO® Dispers 740 W	●	●	●	●	●	●	●	○	○	
TEGO® Dispers 747 W	●	◪	●	◪	●	◪	◪	●	○	
TEGO® Dispers 750 W	●	●	●	◪	●	●	●	●	○	
TEGO® Dispers 752 W	○	○	●	◪	●	○	○	●	●	
TEGO® Dispers 755 W	●	●	●	◪	●	●	●	●	●	
TEGO® Dispers 757 W	◪	◪	●	◪	●	◪	●	●	○	
TEGO® Dispers 760 W	●	●	◪	●	◪	●	●	○	○	
TEGO® Dispers 761 W	●	●	◪	●	◪	●	●	○	○	Swiss A compliant
ZETASPERSE® 170	●	●	◪	●	◪	●	●	◪	○	co-dispersant
ZETASPERSE® 179	●	●	◪	●	◪	●	●	◪	○	co-dispersant
ZETASPERSE® 182	●	●	◪	●	◪	●	●	◪	○	co-dispersant
ZETASPERSE® 2500	◪	◪	●	◪	●	◪	●	◪	○	
ZETASPERSE® 3014	●	◪	●	●	●	◪	●	●	◪	
ZETASPERSE® 3100	◪	○	●	◪	●	●	◪	●	◪	
ZETASPERSE® 3400	◪	○	●	◪	●	◪	●	◪	○	
ZETASPERSE® 3600	◪	○	●	◪	●	◪	●	◪	○	
ZETASPERSE® 3700	◪	○	●	◪	●	◪	●	◪	○	
ZETASPERSE® 3800	◪	○	●	◪	●	●	●	●	●	

○ not recommended ◪ recommended ● highly recommended

WETTING AND DISPERSING ADDITIVES

Non-aqueous formulations

Our wetting and dispersing additives for non-aqueous formulations ensure fast and efficient wetting and long lasting stabilization of pigments and fillers in non-aqueous formulations. A broad range of products is available suitable for many different applications. For solventborne formulations several solutions and 100% active products are available. The 100% active products can be used for solvent-free formulations.

Product	Solventborne	2-pack solvent-free	Radiation-curing	Direct grind	Pigment concentrates	Pigment wetting	Pigment stabilization	Carbon black	Organic pigments	Inorganic pigments/fillers	Matting agents	Remarks
TEGO® Dispers 1010	●	●	○	◐	●	●	●	●	●	●	◐	low polar solvents
TEGO® Dispers 628	●	○	○	●	◐	●	●	○	○	●	◐	strong viscosity reduction
TEGO® Dispers 630	●	○	○	●	○	◐	◐	○	○	●	○	controlled flocculation
TEGO® Dispers 650	●	●	●	◐	●	●	◐	●	●	○	○	for universal colorants
TEGO® Dispers 655	●	●	●	●	●	●	●	○	○	●	●	
TEGO® Dispers 670	●	○	○	○	●	●	●	●	●	●	◐	
TEGO® Dispers 673	●	●	◐	●	●	●	●	●	●	◐	○	
TEGO® Dispers 675	●	●	●	◐	●	●	●	●	●	◐	○	
TEGO® Dispers 676	●	○	○	◐	●	●	●	●	●	●	●	
TEGO® Dispers 679	●	○	○	●	●	●	●	●	●	●	○	

○ not recommended ◐ recommended ● highly recommended

Product	Solventborne	2-pack solvent-free	Radiation-curing	Direct grind	Pigment concentrates	Pigment wetting	Pigment stabilization	Carbon black	Organic pigments	Inorganic pigments/fillers	Matting agents	Remarks
TEGO® Dispers 685	●	●	●	●	●	●	●	●	●	●	◐	
TEGO® Dispers 686	●	●	◐	●	◐	●	◐	○	○	◐	●	
TEGO® Dispers 687	●	◐	◐	●	◐	◐	●	◐	◐	●	●	against sedimentation of matting agents
TEGO® Dispers 688	●	○	●	◐	●	●	●	○	○	●	●	for matting agents in UV formulations
TEGO® Dispers 689	●	●	●	●	●	●	●	◐	◐	●	●	for matting agents in UV formulations
TEGO® Dispers 690	●	●	●	●	●	●	●	●	●	●	◐	Swiss A compliant
TEGO® Dispers 705	●	○	○	●	○	◐	◐	○	○	●	○	
TEGO® Dispers 710	●	○	○	◐	●	◐	●	●	●	◐	○	
LIPOTIN® DB	●	●	○	●	●	●	◐	●	●	●	○	
COLOROL® F	●	○	○	●	◐	●	◐	●	●	●	○	

○ not recommended ◐ recommended ● highly recommended

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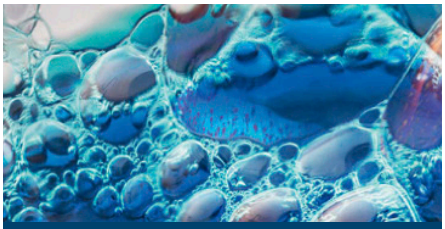

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