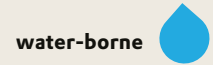


Coating Additives Solutions for Waterborne Wood Coating



Waterborne coatings are globally accepted as environmentally friendly technology. The optimal selection of additives and binders is crucial ...

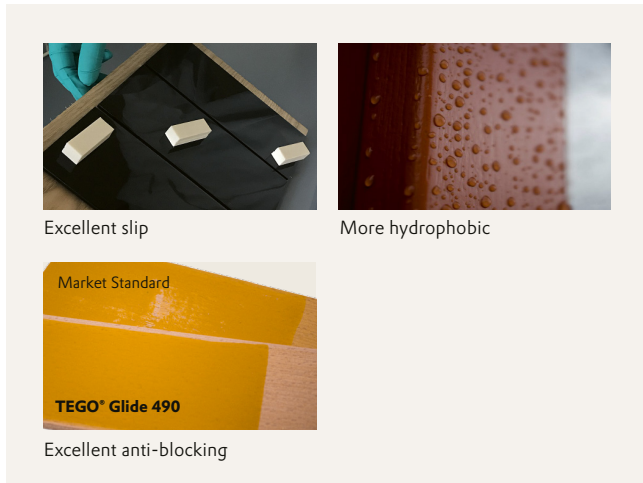
SLIP AND FLOW ADDITIVE



TEGO® Glide 490

Emulsion of a high molecular weight polydimethylsiloxane. Outstanding slip and anti-blocking properties in waterborne coatings. Additional scratch resistance and hydrophobic properties. It is free of aromatic solvents and tin.

- Outstanding anti-blocking property
- Improve hydrophobic property
- Excellent slip effect
- Good scratch resistance
- No foam stabilization



TEGO® Glide 494

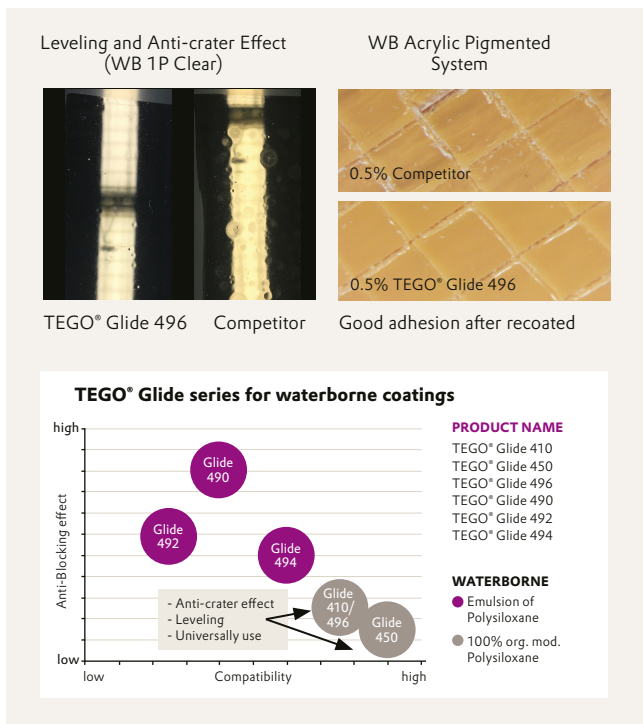
Emulsion of a high molecular weight polydimethylsiloxane. Better compatibility than TEGO® Glide 490. Good slip, anti-blocking properties and rub resistance. It creates a soft and slippery touch in waterborne formulations. It is free of aromatic solvents and tin.

TEGO® Glide 496

Polyether siloxane copolymer. Outstanding slip and leveling properties without compromising recoatability and compatibility.

Globally registered, complies with various environmental regulations and various food contact regulations.

- Excellent leveling effect
- Improve scratch resistance
- Improve slip and anti-blocking properties
- Good compatibility
- Without compromising recoatability



... The need for robust and effective production lines as well as the fulfillment of regulatory and labeling requirements are also inevitable for a successful waterborne formulation.

SUBSTRATE WETTING ADDITIVE

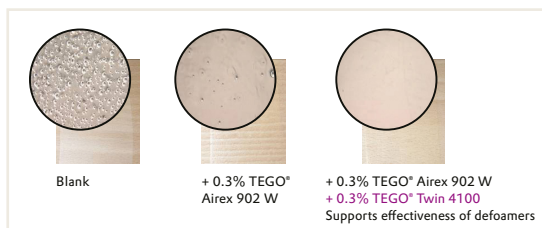
water-borne



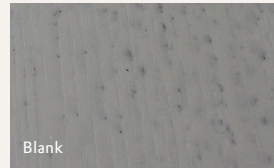
TEGO® Twin 4100

As a siloxane-based gemini surfactant, it combines substrate wetting and anti-crater effects with some defoaming property.

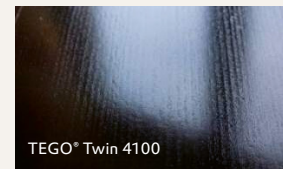
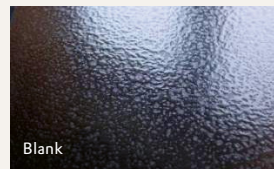
- Strong substrate wetting
- Excellent anti-crater effect
- Outstanding wood grain wetting
- Supports flow and leveling
- No foam stabilization
- Supports effectiveness of defoamers
- Easy incorporation and universal



WB Acrylic White (ashtree) – Outstanding wood grain wetting



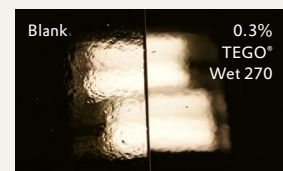
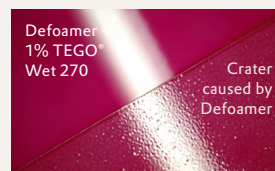
WB 2k PU Clear – Excellent anti-crater effect



TEGO® Wet 270

A highly active siloxane-based substrate wetting additive with excellent anti-crater property and flow promotion.

- Strong anti-crater effect
- Effective substrate wetting and flow improvement
- Less foam stabilization
- Universal for most of the binder/application



Effective substrate wetting and flow improvement

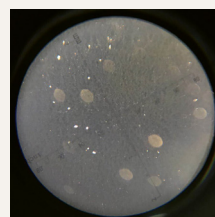
SURFYNOL® AD01

A multi-functional gemini surfactant combining dynamic wetting and molecular defoaming. It also acts as a coalescing aid.

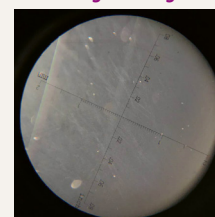
- Multi-functional gemini surfactant, 100% active matter
- Excellent compatibility
- Good deaerating effect (especially reaction foam)
- Excellent dynamic surface tension reduction
- Silicone free

Full gloss WB 2K PU 100 um on Glass by spray application

Deaerating Reacting Foam



0.5% TEGO® Airex 902 W

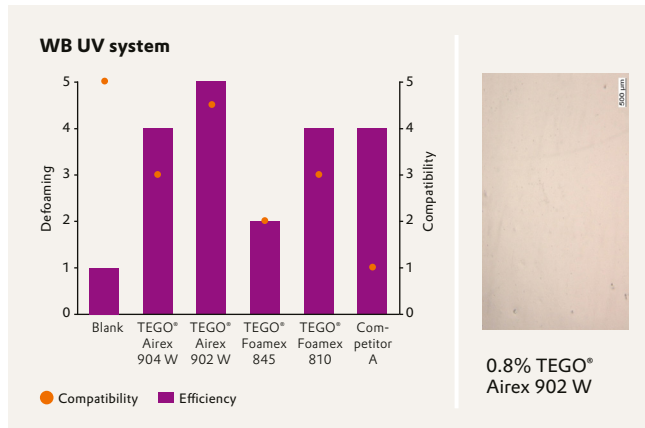


0.5% TEGO® Airex 902 W
1.0% SURFYNOL® AD01

TEGO® Airex 902 W

Highly effective and compatible deaerator emulsion based on polyether siloxane technology

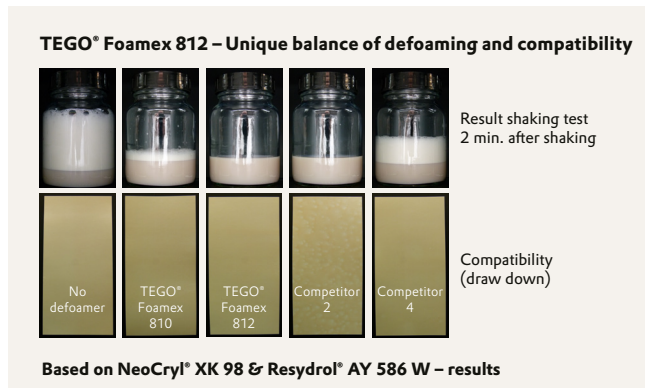
- Emulsion type, 20% active matter
- Highly deaerating effect
- Excellent compatibility
- Universal for most of the binder/ application
- High efficiency for micro foam & pinholes prevention



TEGO® Foamex 812

An effective defoamer concentrate based on polyether siloxane technology

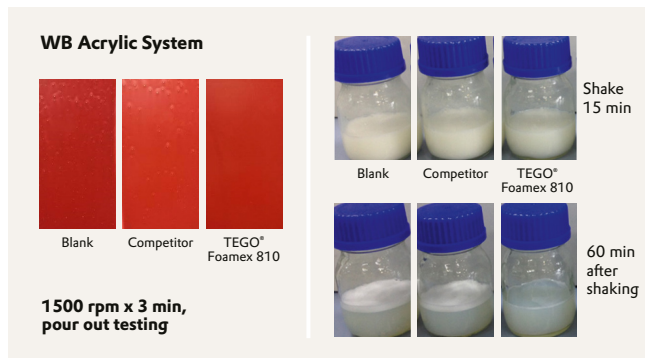
- Similar performance profile as TEGO® Foamex 810
- Unique balance of defoaming and compatibility
- Favorable regulatory profile



TEGO® Foamex 810

An effective defoamer concentrate based on polyether siloxane technology.

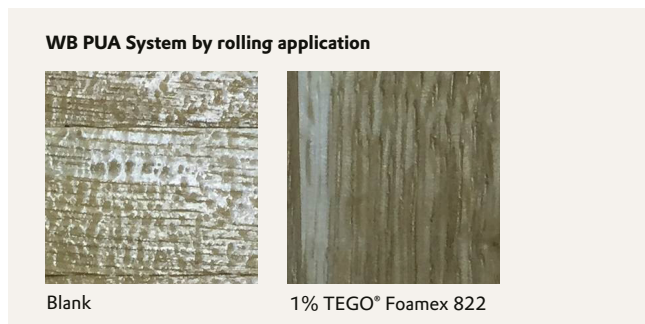
- Excellent efficiency and good compatibility
- Universal for most of the binder/application
- Suitable for both grinding and let-down stage



TEGO® Foamex 822

A compatible defoamer emulsion based on polyether siloxane technology.

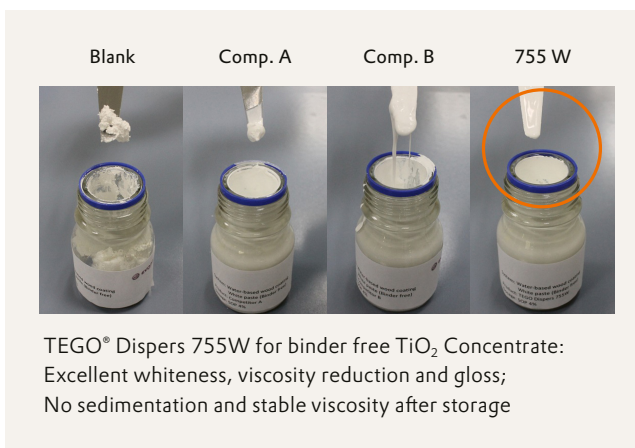
- Excellent compatibility and good efficiency
- Universal for most of the binder systems
- Long term effectiveness



TEGO® Dispers 755 W

A slightly anionic, polymeric high-performance wetting and dispersing additive for waterborne formulations

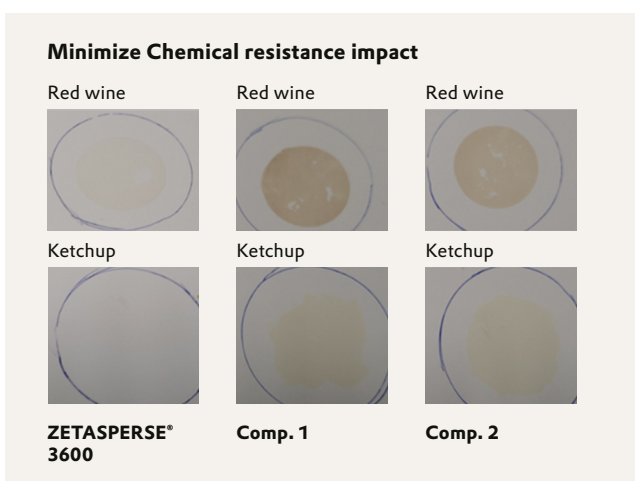
- Excellent color strength development
- Excellent color acceptance
- Excellent anti-settling
- Good viscosity reduction
- Good chemical resistance
- Universal for various pigments / fillers and binder systems



ZETASPERSE® 3600

An anionic wetting and dispersing additive for waterborne formulations.

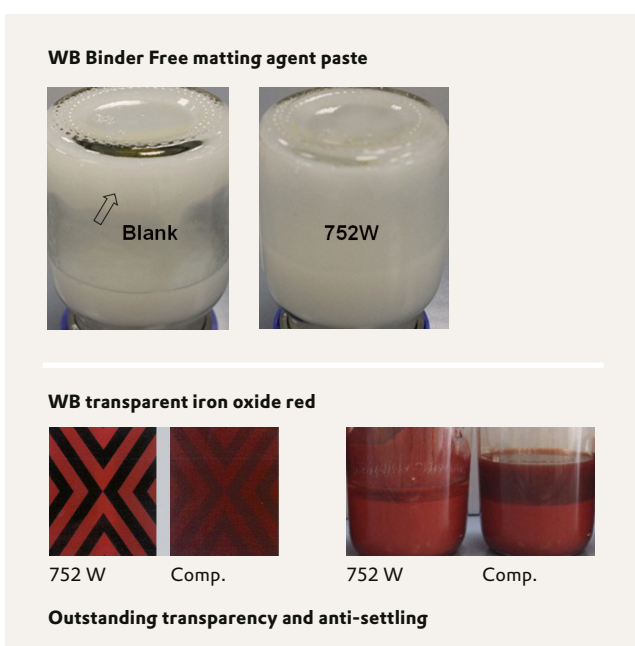
- Excellent color strength development
- Excellent viscosity reduction
- Excellent gloss development
- Good anti-settling
- Minimize influence on chemical resistance
- Universal for various pigments and fillers



TEGO® Dispers 752 W

An anionic wetting and dispersing additive for transparent iron oxide and matting agent in waterborne formulations

- Outstanding transparency
- Excellent anti-settling
- Excellent viscosity reduction
- Most suitable for transparent iron oxides and matting agent



ACEMATT® OK 520

A fine-grained wax after-treated precipitated silica

- Good overall performance
- Good matting efficient
- Good transparency

ACEMATT® OK 390

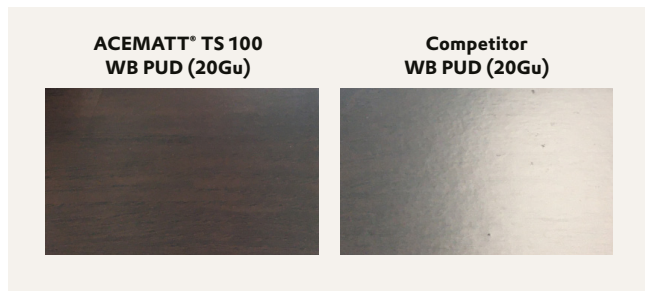
A wax-treated, very fine particle sized product based on precipitated silica

- Excellent overall performance
- Excellent haptic
- Good matting efficiency
- Good transparency

ACEMATT® TS 100

An untreated thermal silica with outstanding properties

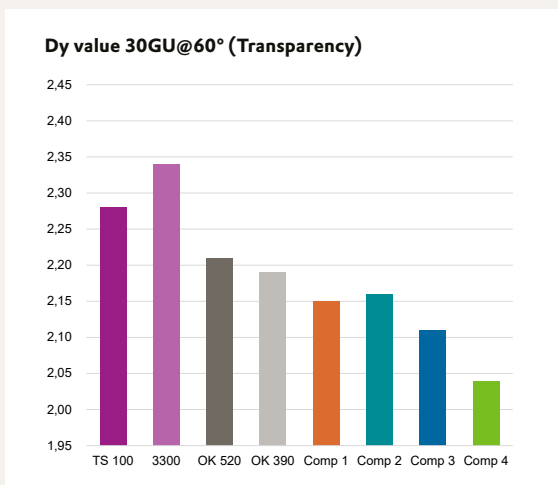
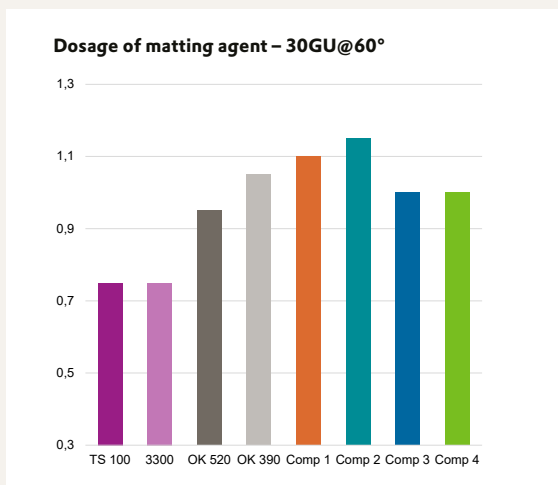
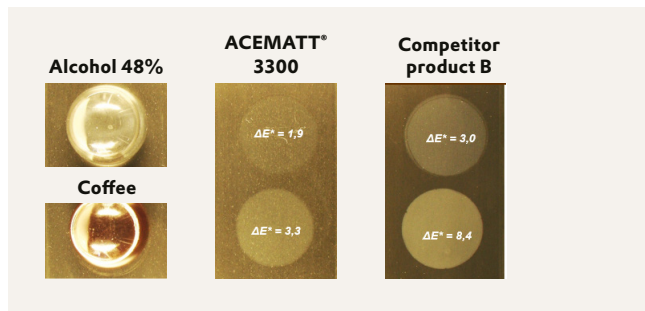
- Excellent matting efficiency
- Excellent transparency
- Good chemical resistance



ACEMATT® 3300

A specially after-treated thermal silica with a unique property profile. Along with excellent matting efficiency, it can be the solution for multiple tasks in formulating coatings

- Excellent matting efficiency
- Excellent transparency
- Better scratch resistance
- Better water resistance
- Better anti-settling



Matting efficiency and transparency of ACEMATT® (30GU@60°on PMMA / DFT: 23um)

AERODISP® For Waterborne Wood Coating

Benefits

- Anti-settling
- Anti-sagging
- Improvement of film formation
- Easy to incorporate and easy to handle

AERODISP® W 7520 N:

Aqueous dispersion of hydrophilic fumed silica

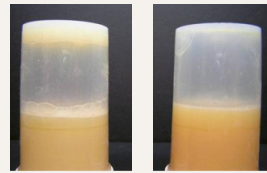
AERODISP® WR 8520:

Aqueous dispersion of hydrophobic fumed silica

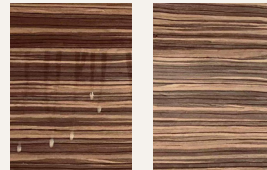
AERODISP® WF 7620:

Aqueous dispersion of a functionalized fumed silica

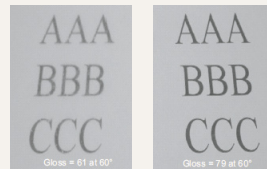
PUD Clear Wood Varnish – Satin (treated silica matting agent)



Control 5% AERODISP® W 7520 N



Control 5% AERODISP® W 7520 N



Resin + 1% AEROSIL® 200 Resin + 5% AERODISP® W 7520

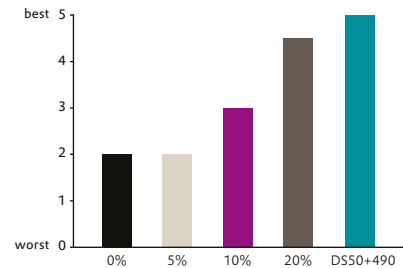
AC-337 N Acrylic Resin – Rohm & Hass (4 mils wet)

TEGO® VariPlus DS 50

Highly effective and compatible dispersion of a hard resin

- Enhance Anti-blocking
- Enhance drying
- Improve hardness
- Solvent free
- Formaldehyde free (<1 ppm)
- Improve grinding efficiency and stability

WB Acrylic White Topcoat
2000 kg/m², 50°C, 24 hr



TEGO® VariPlus DS 50

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AEROSIL®, AIRASE®,
ALBIDUR®, CARBOWET®,
DYNOL™, NANOCRYL®,
NANOPOL®, SILIKOFTAL®,
SILIKOPHEN®, SILIKOPON®,
SILIKOPUR®, SILIKOTOP®,
SIPERNAT®, SURFYNOL®,
TEGO®, TEGOMER®, ZEOLEX®,
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companies and are written in
capital letters.