

# tegotalk

Issue 32 | 11

## Editorial

One possible way to increase business is to take a successful product or technology and leverage it in to a new application or market. When successful, this type of strategy provides unique opportunities for the supplier and the customer alike. The customer has the advantage of adapting existing technology without a long learning curve, and both business partners benefit from the creation of additional value for their respective companies as well as for the end user.

This is one of the potential advantages we had in mind with the creation of **TEGO® Twin 4100**. This multifunctional additive is based on our expertise in providing novel solutions designed to fulfill multiple technical requirements. This is simply another way for formulators familiar with our technology platforms to confidently develop new offerings for their markets while being assured of Tego's ability to deliver innovative, quality products in a timely manner.

We are also striving to take innovation beyond the laboratory and integrate it in to every aspect of our business culture. One of our more recent customer service innovations is to simplify your ability to contact us directly by providing more memorable contact details.

For more information on our innovative additive and resin portfolio designed specifically for the coatings and ink markets, e-mail us at [asktego@evonik.com](mailto:asktego@evonik.com).

For expert technical advice, call us at **1-888-ASK-TEGO (1-888-275-8346)**.

Continued Success,



Jim Yosh, Business Director

## TEGO® Twin 4100

New Multifunctional Additive Tackles  
Difficult Substrate Wetting,  
Defoaming and Compatibility Issues

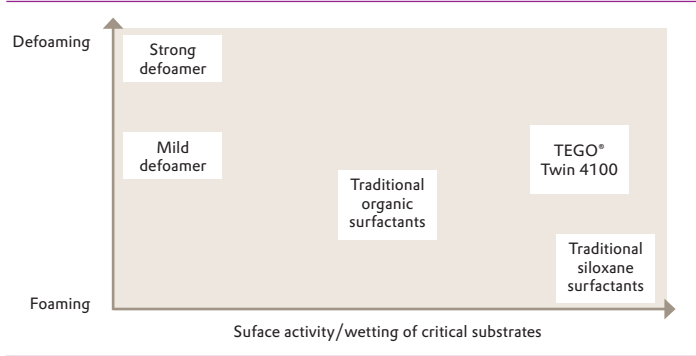
The new TEGO® Twin 4100 further extends siloxane additive technology to provide waterborne coating formulators with excellent wetting on difficult substrates, such as metal, wood and plastics. It also provides excellent defoaming and compatibility with sensitive resin systems. TEGO Twin® 4100 also demonstrates superior anti-cratering performance due to the multifunctional additives' extraordinary surface tension reduction.



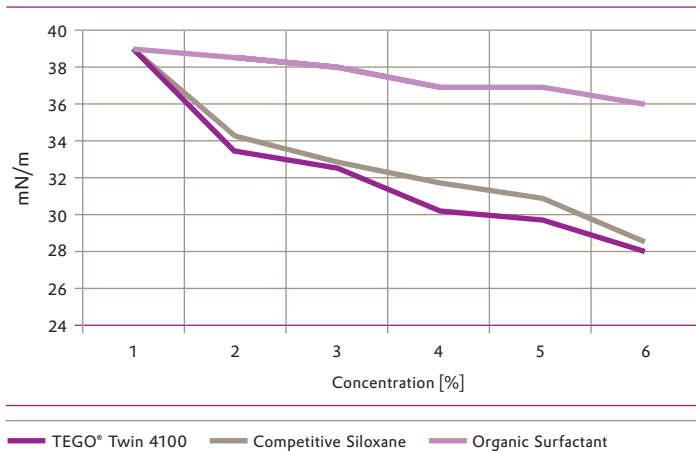
**TEGO® Twin 4100** is developed based on a polysiloxane with organic modifications

This technology is characterized by multiple symmetrical hydrophobic and polar groups separated by a spacer. At concentration levels of 0.5% in formulation, TEGO® Twin 4100 exhibits better than 7% improvement in surface tension reduction compared with either Twin 4000, or a conventional siloxane, and approaching 28% improvement compared with a typical organic surfactant. The TEGO® Twin 4100 provides good deaeration in waterborne formulations, significantly improves wetting – even on contaminated metal surfaces – and decreases foam. The additive offers formulators excellent flow and leveling, good overspray acceptance and displays long-term stability and persistence in the final formulation. TEGO® Twin 4100 presents an excellent environmental profile, is 100% active, solvent-free, and APE-free.

**Positioning of TEGO® Twin 4100 Multifunctional Additive**



**Static Surface Tension in Waterborne Acrylic Urethane Coating**

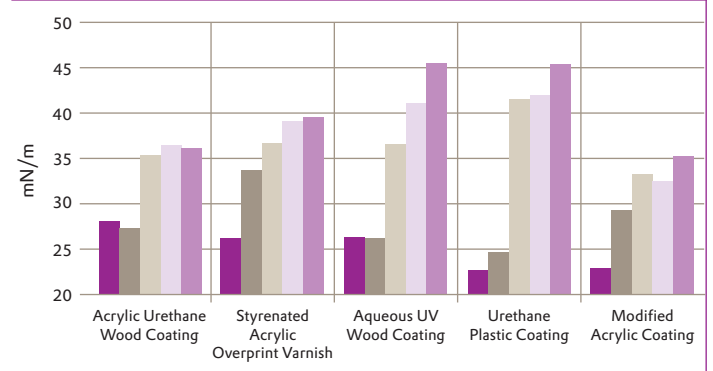


**TEGO® Twin 4100** also presents economical advantages for the formulator

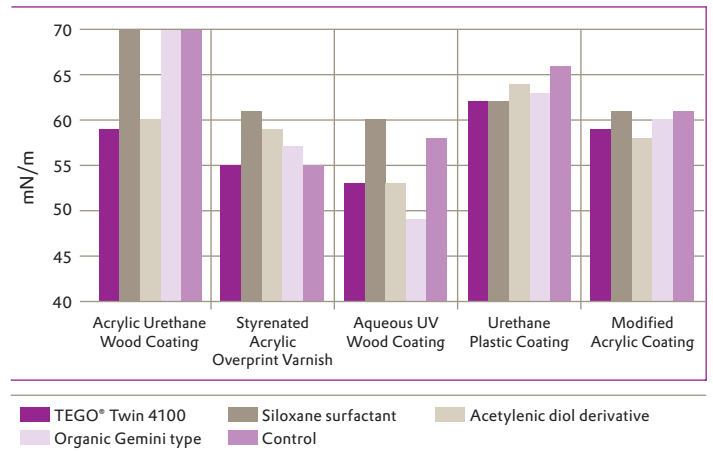
Because it possesses such high active matter content and is easily incorporated at low addition levels, it allows the formulator to reduce the total additive content of the formulation which provides potential cost savings. TEGO® Twin 4100 performs the functions of two additives in one structure by providing excellent wetting while maintaining a defoaming effect, allowing the potential for a single additive to replace a defoamer, wetting agent, and any additional surface control modifiers.

Evonik recommends the addition of TEGO® Twin 4100 and evaluation of wetting, flow and foaming behavior before considering the addition of any other flow agent or defoamer. Begin with low addition levels to maximize the efficiency of your formulation.

**Static Surface Tension Reduction**



**Foam Prevention in Waterborne Coatings**



For test results, starting point formulations, samples and practical advice on formulating with TEGO® Twin 4100, call Technical Service at (888) ASK TEGO or (888) 275-8346.

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