Defoamers for Industrial Waterborne Coatings

Long-term, stable, and compatible defoamers for industrial coatings

Best solutions to achieve long-term defoaming efficiency for Industrial Waterborne Coatings

Industrial coatings often demand persistent defoaming efficiency due to constant exposure to high shear forces, from production through the finish application. However, many typical defoamers and deaerators fail to provide extended defoaming efficiency and compatibility throughout long application cycles.

Organically-modified siloxane concentrates such as **TEGO® Foamex 812, TEGO® Foamex 844** are the most suitable for industrial applications, providing the best balance between long-term efficiency and compatibility.

Defoamers for Industrial Waterborne Coatings – Benefits At a Glance

Long-term defoaming efficiency	• Efficient even when exposed to long cycles of high-shear operations • More effective than emulsion defoamers
Constant stability across multiple cycles	• Stable during constant recirculation processes
Broad compatibility	• Controlled compatibility with a range of waterborne emulsion binders • Low risk of surface defects such as craters, de-wetting and orange peel

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EVONIK
Leading Beyond Chemistry

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Long-term defoaming efficiency with TEGO® Foamex 844 and TEGO® Foamex 812 for Industrial Waterborne Coatings

TEGO® Foamex 844 and TEGO® Foamex 812 presented higher foam density after 180 minutes, which demonstrates their long-term defoaming efficiency.

Test Parameters:
0.1 % dosage at high sheer in WB acrylic direct-to-metal coating.

300 RPM for 180 minutes. Density was recorded every 30 min, to measure foam build.

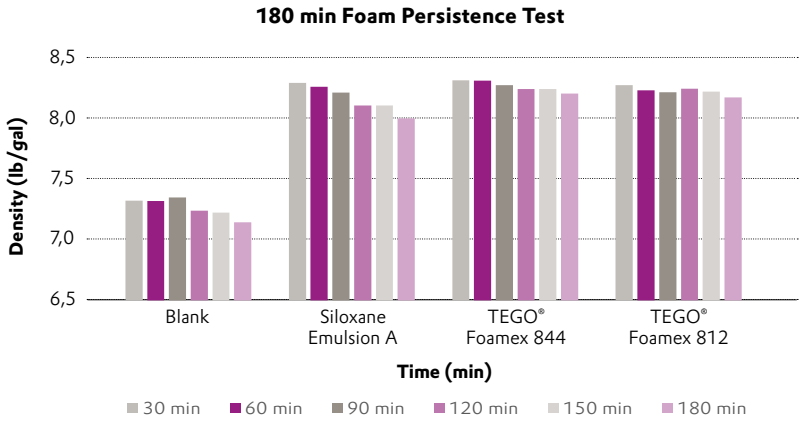

Table – Best Evonik Defoamers for Industrial Waterborne Coatings

DEFOAMERS	PRODUCT DESCRIPTION
TEGO® Foamex 812	Universal grinding stage defoamer, that can be used in the let-down with sufficient shear to prevent macro-and micro-foam
TEGO® Foamex 844	Suitable defoamer for pigmented and clear formulations with no fumed silica content

Siloxane emulsion A:
Lost efficiency after recirculating and spraying, which resulted in foam build during the application process.

TEGO® Foamex 844 and TEGO® Foamex 812:
Performed very well in controlling foam and avoiding surface defects in same conditions.

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