

BYK-1810, BYK-1811, BYK-1815, BYK-1816, and BYK-1818

PFAS-free, silicone-containing defoamers for solvent-borne and solvent-free systems

Per- and polyfluoroalkyl substances (PFAS) are widely used in everyday life as components of, for example, non-stick coatings, fire-fighting foams, or paints. However, since PFAS are now suspected of having the potential to be harmful to health, their use is being viewed increasingly critically worldwide.

Defoamers also often contain fluorine-modified silicones for a spontaneous and fast defoaming effect. BYK has expanded their portfolio and now offers PFAS-free sustainable

alternatives to fluorine-modified silicone defoamers: BYK-1810, BYK-1811, BYK-1815, BYK-1816, and BYK-1818.

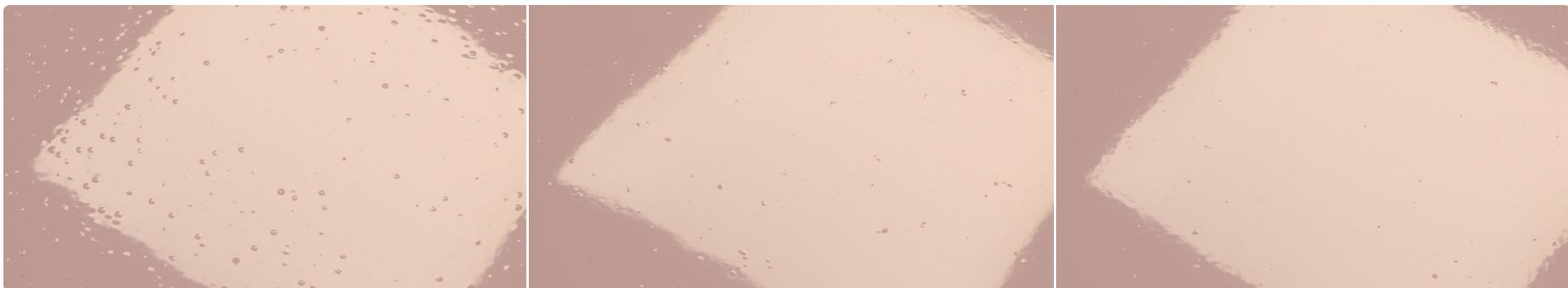
These five new additives provide high efficiency and excellent spontaneous defoaming on a par with PFAS-containing products, yet are completely fluorine-free. They can be used in a wide range of solvent-borne and solvent-free systems and cover a broad spectrum of applications overall.

PFAS-free!

Benefits

- Excellent defoaming properties in solvent-borne and solvent-free systems (wide range of applications)
- Spontaneous defoaming even at low dosage levels
- Prevention of pinholes
- Reduction of surface tension
- Positive influence on leveling and surface appearance
- Good storage stability

BYK-1810 – Excellent and spontaneous defoaming in a high gloss alkyd paint



Control
Defoaming time: > 300 s

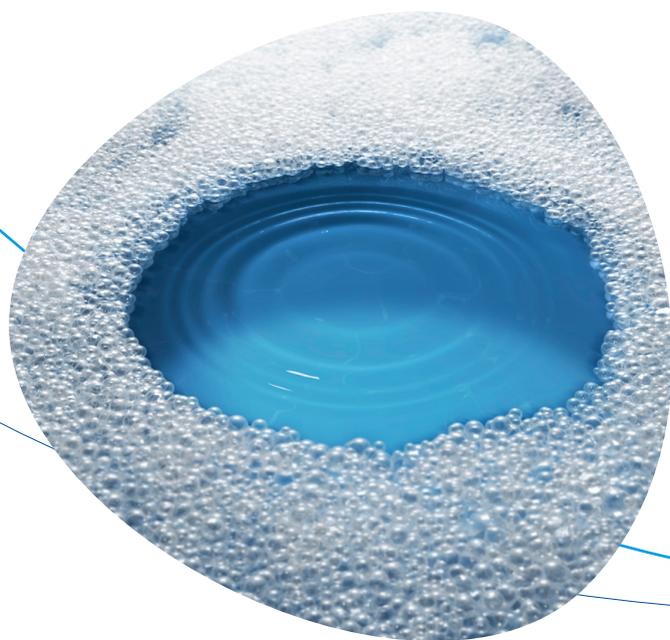
Fluorine-modified silicone defoamer
Defoaming time: 45 s

BYK-1810
Defoaming time: 35 s

Test system: High gloss alkyd paint; **Additive dosage:** 0.3 % additive (as supplied) on the total formulation; **Application:** Roller application (0.2 kg/m²)

Technical data

Product	Density (20 °C)	Non-volatile matter (10 min, 150 °C)	Solvents	Flashpoint
BYK-1810	0.88 g/ml	0.9 %	Butyl acetate	26 °C
BYK-1811	0.89 g/ml	9.9 %	Butyl acetate	25 °C
BYK-1815	0.89 g/ml	10.0 %	Butyl acetate	26 °C
BYK-1816	0.89 g/ml	10.0 %	Butyl acetate	26 °C
BYK-1818	0.88 g/ml	1.0 %	Butyl acetate	26 °C



Applications of PFAS-free defoamers

Applications	BYK-1810	BYK-1811	BYK-1815	BYK-1816	BYK-1818
Architectural coatings	●	○	○	○	○
Floor coatings	●	○	○	○	○
General industrial coatings	●	○	●	●	○
Marine coatings	●	●	●	●	●
Protective coatings	●	●	●	●	●
Wood and furniture coatings				●	○
Automotive refinish coatings	○				
Adhesives and sealants	●	○	●		
Thermosets	○		○		

● Highly recommended ○ Recommended

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This issue replaces all previous versions.

