

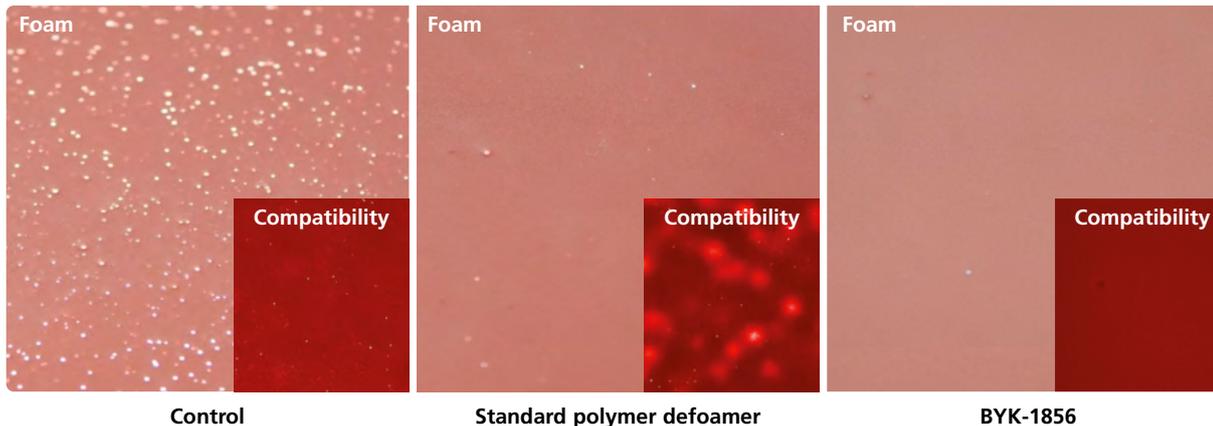
BYK-1856

Silicone- and aromatic-free defoamer with excellent defoaming effect and exceptional compatibility for solvent-borne and solvent-free systems

In many applications, defoamers should be not only highly effective, but also highly compatible; something that initially appears to be contradictory. The new, silicone-free BYK-1856 defoamer has been developed based on acrylates and can achieve both effects at the same time. The defoamer is particularly suitable for systems requiring high compatibility

and good defoaming. BYK-1856 is effective in 2-pack epoxy- and 2-pack polyurethane-based coating applications as well as in many common thermoset systems based on epoxy resin, unsaturated polyester and vinylester resin, and acrylic syrups of a low molecular weight.

BYK-1856 in a protective epoxy primer: Very good defoaming and outstanding compatibility



Test system: conventional 2-pack protective epoxy primer

Additive dosage: 0.5% (as supplied) based on the A component

Application method:

1. Foam: pour out the epoxy primer onto PE foil after incorporating air by vigorously stirring
2. Compatibility: draw down of the epoxy primer on glass panel in a film thickness of 200 µm (wet) after stirring

General benefits

- Silicone- and aromatic-free
- Powerful and spontaneous defoaming/air release effect
- Excellent compatibility
- Easy handling due to low viscosity

Specific benefits in coating applications

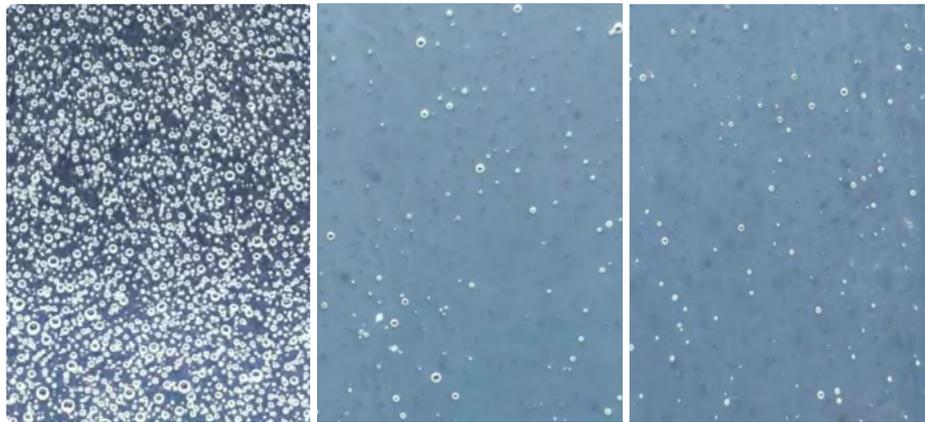
- Improves leveling
- Especially recommended for epoxy resin and polyurethane systems
- Highly suitable for increased film thicknesses

Specific benefits in thermoset applications

- Increased quality of pultrusion parts due to improved fiber wetting
- No whitening at high curing temperatures in vinylester systems
- Low turbidity in clear systems

BYK-1856 in a vinylester gelcoat

Very good air release



Control

Standard
polymer air release agent

BYK-1856

Test system: vinylester gelcoat

Additive dosage: 1 % (as supplied) based on the total formulation

Fumed silica content: 1.8 %

Applied film thickness: 1,000 µm

Only slight turbidity



Control

Standard
polymer air release agent

BYK-1856

The acrylate-based
BYK-1856 is highly
compatible in the
vinylester system
→ only slight
turbidity

Technical properties

- Solution of polyacrylates
- Density (20 °C): 0.89 g/ml
- Non-volatile matter (10 min., 150 °C): 20 %
- Solvents: Butyl acetate/methoxypropyl acetate
- Flash point: 27 °C

Areas of application

- General industrial coatings
- Wood and furniture coatings
- Marine and protective coatings
- Floor coatings
- Thermosets



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