

BYK-1880

New defoamer technology for solvent-borne and solvent-free systems applied by airless or air-assisted airless spray

Solvent-borne or solvent-free coatings, e.g. typical 2-pack PUR systems for ACE* applications, are often applied using airless or air-assisted airless spray. In this application method, air is dragged along with the paint due to the very high pressure at the spray nozzle. The coating then hits the substrate at high speed (~ 150 m/s), the dragged along air is entrapped and later becomes visible as microfoam in the coating. This is difficult to defoam and leads not only to a poor visual appearance, but also to loss of gloss, an increase in viscosity and poor durability of the coating.

To defoam these demanding systems, the new BYK-1880 has been developed. The silicone-containing defoamer is based on a novel, patented ABC structure and is specifically

recommended for 2-pack high-solid PUR systems. In addition, the product can also be used in conventional spray-applied systems and is widely applicable in many solvent-borne and solvent-free coatings.

* Agricultural, Construction and Earthmoving

Airless
by airless

Benefits

- Particularly effective against microfoam caused by airless or air-assisted airless application
- Highly effective and at the same time very compatible
- Excellent defoaming in low as well as in higher film thicknesses
- Suitable for any gloss level
- No negative influence on paint properties, such as gloss, adhesion and leveling
- Especially recommended for 2-pack PUR systems (high-solid and conventional)
- Suitable for many solvent-borne and solvent-free coatings such as alkyds or 2-pack epoxy systems

Areas of application

- General industrial coatings
- Marine and protective coatings
- Floor coatings
- Automotive refinish coatings

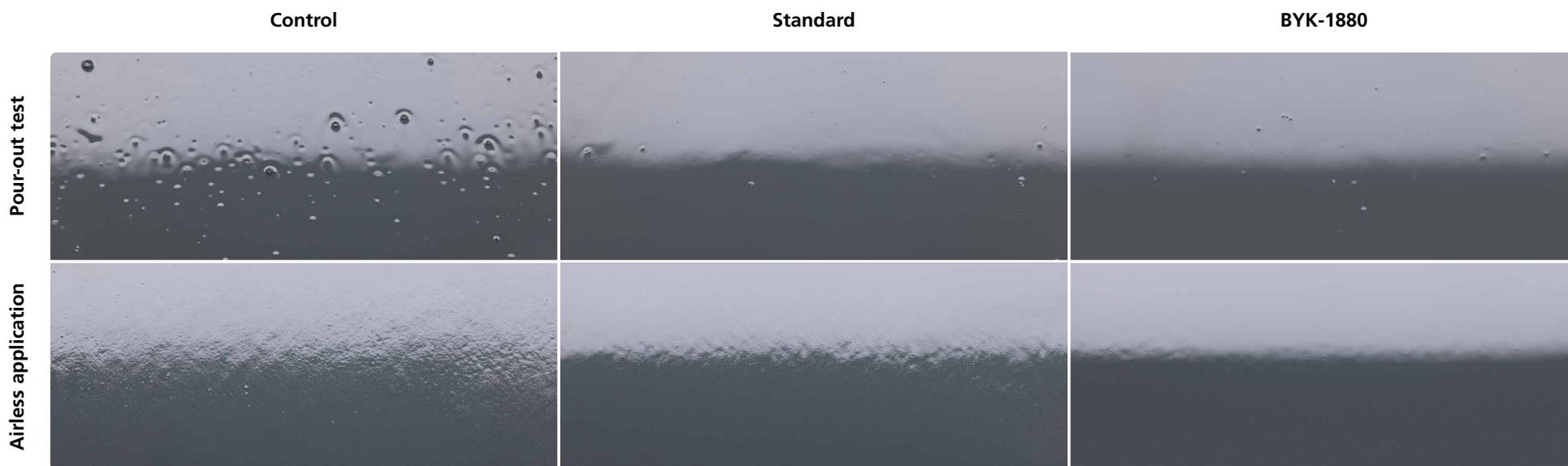
Novel and patented ABC structure



Technical properties

- Modified polysiloxane copolymer
- Density (20 °C): 0.987 g/ml
- Flash point: 93 °C
- Active substance: 100 %

Defoaming after pour-out test and airless application



Test system: 2-pack high-solid PUR; **Additive dosage:** 1 % additive as supplied on component A; **Airless parameters:** Nozzle 0.38 mm 40° angle, 190 bar, vertical drying; **Film thickness (dry):** 60–80 µm

Perfect defoaming in a 2-pack PUR topcoat



Additive dosage: 1 % additive as supplied on component A; **Airless parameters:** Nozzle 0.28 mm 40° angle, 160 bar, vertical drying; **Film thickness (dry):** 60–80 µm

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This issue replaces all previous versions.

