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## Polysiloxane containing defoamer

### Description

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**Borchers® AF 1171** is a solvent-free defoamer based on silicones with hydrophobic particles for use in waterborne, solventborne and solvent-free systems. It is particularly suited for aqueous decorative paints and aqueous general industrial coatings.

**Borchers® AF 1171** is easy to incorporate. It can be added to the mill base, to the let down or as a post additive.

### Characteristic data

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Appearance:	milky whitish liquid	
Solid content:	> 98 %	OMG Borchers Test method 100-85 (1g, 1h, 125 °C) (acc. to EN ISO 3251)
Density (25 °C):	1.01 – 1.05 g/cm <sup>3</sup>	EN ISO 2811-1 (pycnometer)
Viscosity (25 °C):	210 - 290 mPa·s	ISO 3219

### Properties

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**Borchers® AF 1171** is a highly active silicone based foam control agent with air release property. It can be used in clear and pigmented systems. Due to its unique molecule structure, **Borchers® AF 1171** improves the film gloss, substrate wetting, colour strength in pigmented systems and avoids microfoam formation.

The product is easily emulsified in water and easy to incorporate. The efficiency is independent of curing mechanism.

### Applications

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**Borchers® AF 1171** is characterized by good binder compatibility and needs little shear force to incorporate. When preparing pigment concentrates, foam formation is efficiently suppressed under high shear stress conditions in the grind.

In physically and chemically drying systems based on water soluble alkyds, polyurethane, styrene-, straight and vinyl acrylates and hydroxyl-bearing polyacrylates, **Borchers® AF 1171** supports quick air release of entrapped air on the film surface.

Beside of water based system **Borchers® AF 1171** can be used in solvent free and solvent based alkyds.



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## Dosage

**Borchers® AF 1171** can be added to the formulation at any stage, including post addition. The required amounts depend on the required effect and the type of system.

Usual amounts are approximately 0.05 to 1.50 wt.-%. In pigmented systems 2/3 of the defoamer portion should be added in the grind and 1/3 in the let down. The exact addition rate must be determined in each individual case by performing preliminary trials.

### Recommended dosage

Wood- and furniture coatings (clear coats):	0.05 to 0.50 % calculated on total formulation
Printing inks and overprint vanishes:	0.05 to 0.50 % calculated on total formulation
Decorative coatings:	0.05 to 1.00 % calculated on total formulation
General industrial coatings:	0.05 to 0.50 % calculated on total formulation
Pigment concentrates:	0.20 to 1.50 % calculated on total formulation

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## Storage

Protected from the effects of weathering and store at temperatures between 5 und 30°C.  
Once opened containers should be released immediately after each removal of the product.

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## Safety

Please refer to our material safety data sheet for information relating to product safety.

Updated: 14.02.2012

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