

## BYK-A 516

Silicone- and aromatic-free, polymer-based air release additive for solvent-borne and solvent-free resin systems, in particular for thermoset applications, and for improved fiber wetting of glass fibers.

### Product data

#### Composition

Solution of polyolefins

Aromatic-free

#### Typical properties

The values indicated in this data sheet describe typical properties and do not constitute specification limits.

Density (20 °C): 0.77 g/ml  
Flash point: 42 °C  
Viscosity (23 °C): 64 mPa·s  
Hazen color number: < 100

#### Storage and transportation

To be stored and transported between 0 °C and 50 °C.

#### Special note

BYK-A 516 is the replacement product for BYK-A 515.

### Applications

#### Thermosets

##### Special features and benefits

BYK-A 516 is a universal, highly surface active air release additive. In fiber composite applications with unsaturated polyester and vinylester resins, the additive also exhibits fiber wetting properties on glass fibers. Particularly in vinylester resin applications, BYK-A 516 does not tend to create whitening that can be caused by standard air release additives.

In thixotropic systems, BYK-A 516 can be combined with additives such as BYK-A 501 or BYK-A 555 to optimize the air release properties.

BYK-A 516 prevents air entrapment in acrylic-based resins (syrup), and in epoxy resins and PUR resins. In the pultrusion process, BYK-A 516 improves the fiber wetting of glass fibers and results in a higher quality surface of pultrusion parts.

##### Recommended use

Universal air release agent for ambient curing resin systems based on unsaturated polyester resins, vinylester resins, acrylics, epoxy resins, and PUR resins, and pultrusion systems based on acrylics, unsaturated polyesters, or vinylester resins.

**Recommended levels**

0.1–0.5 % additive (as supplied) based on the total formulation in ambient curing systems.

0.5–2.0 % additive (as supplied) based on the total formulation in pultrusion applications.

The above recommended levels can be used for orientation. The optimum dosage should be determined by application-related test series.

**Incorporation and processing instructions**

Stir in the resin before adding other components.

**Special note**

In some resins BYK-A 516 can cause turbidity.



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