

BYK-1788

VOC-free and Silicone-free Polymer Defoamer for Solvent-borne, High-solid and Solvent-free Systems. Particularly Suitable for 100 % UV Systems.

100 % systems and particularly UV-curing coatings are difficult to defoam as a result of their high processing viscosity and lack of solvent. However, their economic and environmental friendly formulation makes them popular for use in wood, furniture, leather, and general industrial coatings as well as thermoset applications. Along with high effectiveness, clear systems in particular require good defoamer compatibility to guarantee excellent transparency and high gloss.

The well-balanced interaction of effectiveness and compatibility makes the new additive BYK-1788 particularly suitable for non-pigmented systems. BYK-1788 is silicone- and VOC-free and does not introduce any solvents to the formulation. However, in solvent-borne coating systems and those with high solids, BYK-1788 demonstrates its full spectrum of performance.

Spontaneous Defoaming within the Coating Manufacturing Process



Test system: 100 % UV-curing urethane acrylate system based on Ebecryl® 4680.

Incorporation: Agitation at 4 m/s. The photos were taken during the coating manufacturing process (after 2 min.).

Benefits

- Outstanding defoaming in
 - high-solid
 - solvent-borne
 - solvent-free systems
- Especially suitable for 100 % UV systems
- Broad compatibility
- No negative impact on gloss or transparency
- Especially recommended for non-pigmented systems
- Effective – even at a low dosage
- VOC-free, solvent-free, silicone-free

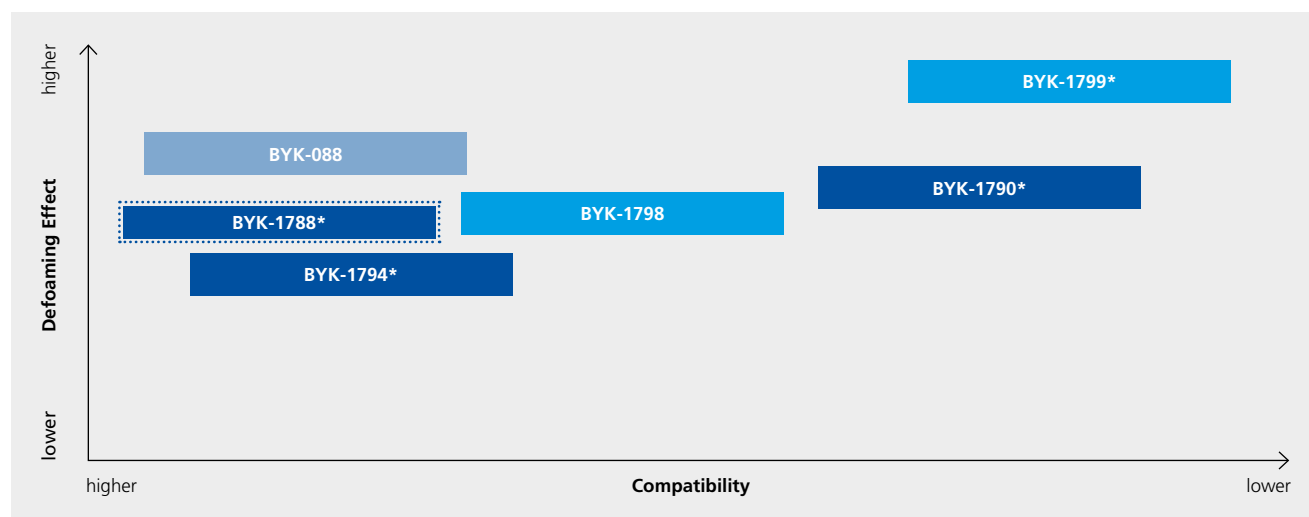
Technical Properties

- Combination of surface-active substances
- Non-volatile matter > 98 %
- Density (20 °C): 0.950 g/cm³
- Dosage:
 - In coatings: 0.3 %–0.5 % additive (as supplied) based on the total formulation
 - In thermosets: 0.1 %–0.75 % additive (as supplied) based on the total formulation

Applications

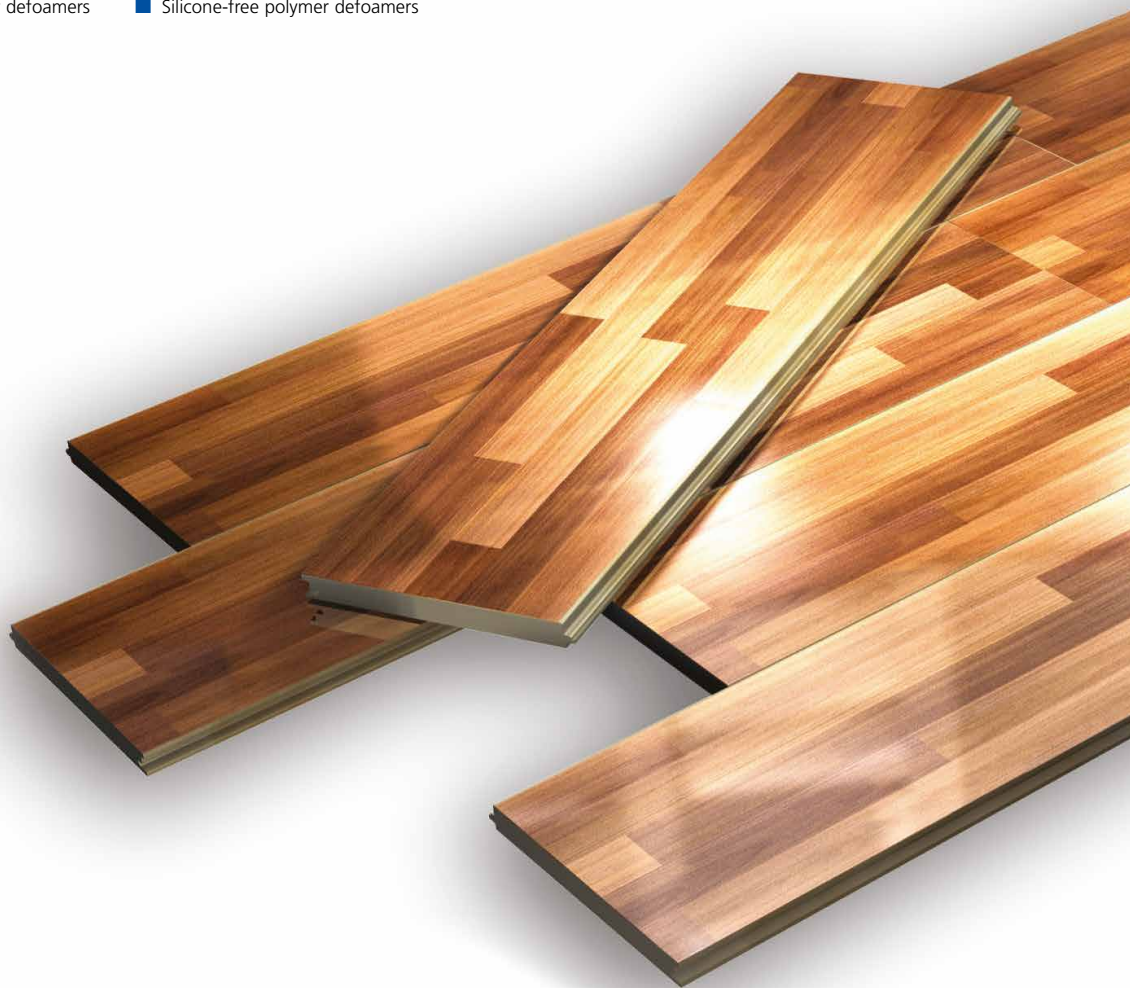
- Wood and furniture coatings
- Thermosets
- Leather coatings
- General industrial coatings

Selection of Defoamers for 100 % UV Systems



■ Silicone defoamers ■ Silicone/polymer defoamers ■ Silicone-free polymer defoamers

*100 % non-volatile matter



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