

DISPERBYK-2158

Wetting and dispersing additive for solvent-free, UV-curing coating systems to disperse and stabilize untreated and treated silica-based matting agents. Excellent viscosity reduction and improvement in matting properties.

Product Data

Composition

Solution of polyester modified polyalkylene imine

Typical Properties

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

Amine value: 13 mg KOH/g
Active substance: 60 % (see note)
Density (20 °C): 1.08 g/ml
Solvents: Dipropylene glycol diacrylate (DPGDA)
Flash point: 143 °C

Storage and Transportation

Store at temperatures below 50 °C. Do not expose to direct sunlight.

Special Note

As the reactive diluent contained in the product exhibits varying volatility for non-volatile matter using different methods of determination (e.g. at 20 min/105 °C) and thus generally does not correspond to the active substance content, for DISPERBYK-2158 the active substance content is deliberately specified.

Applications

Coatings Industry

Special Features and Benefits

DISPERBYK-2158 is characterized by its highly effective dispersion and stabilization of untreated and treated silica-based matting agents. When combined with the matting agents, the use of DISPERBYK-2158 strongly reduces the viscosity and minimizes thixotropy whilst generating Newtonian flow behavior. This makes it possible to use a significantly greater quantity of matting agents. In addition, it is possible to achieve a much more homogeneous incorporation and orientation of the matting agents. Thanks to the form in which it is supplied, DISPERBYK-2158 does not introduce any volatile solvents to the coating formulation, which is a particularly distinctive feature for its use in deep-matt solvent-free UV-curing wood and furniture coatings. The additive has outstanding compatibility with all common oligomers and monomers that are used in solvent-free UV-curing coating systems.

Recommended Use

Wood and furniture coatings	
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Recommended Levels

4-18 % additive (as supplied) based on the matting agent.

The above recommended levels can be used for orientation. Optimal levels are determined through a series of laboratory tests.

Incorporation and Processing Instructions

The additive should be pre-mixed and homogenized in the oligomer or monomer blend before adding the matting agent.



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This issue replaces all previous versions.