

BYK-P 9911

Processing additive for improving the hydrophilic properties of polyurethane (PU) foams and high-solid polyurethane systems for coated fabrics.

Product data

Composition

Polyether-modified dimethylsiloxane

Typical properties

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

Density (20 °C):	1.04 g/ml
Non-volatile matter (10 min, 150 °C):	> 97 %
Refractive index (20 °C):	1.458

Storage and transportation

To be stored and transported at a temperature below 50 °C.

Applications

Thermosets

Special features and benefits

BYK-P 9911 improves the hydrophilic properties of polyether/polyester PU foams for e.g. cosmetic sponges, printer ink cartridges, or imitation sea sponges. The additive is readily soluble in common polyol systems and is resistant to hydrolysis. It increases the water absorption rate of PU foams and can be used either on its own or in combination with a portion of a polyether polyol with high ethylene oxide (EO) content. For example, 1 phr of BYK-P 9911 can increase water absorption up to 250 %, or up to 300 % in combination with 10 phr of a high-EO polyol.

Recommended use

Polyether foams	■
Polyester foams	■

■ especially recommended □ recommended

Recommended levels

0.5–1.5 % additive (as supplied) based on the polyol content.

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

Incorporation and processing instructions

The additive can be incorporated during any stage of the production process.

Leather finishes and coated fabrics

Special features and benefits

BYK-P 9911 improves the hydrophilic properties of high-solid polyurethane systems (polyether/polyester). It optimizes moisture absorption and therefore improves comfort when used in shoe uppers, linings, and garments.

Recommended use

Polyether polyurethanes	<input checked="" type="checkbox"/>
Polyester polyurethanes	<input checked="" type="checkbox"/>

especially recommended recommended

Recommended levels

0.5–1.5 % additive (as supplied) based on the polyurethane content. In special cases up to 5 %.

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

Incorporation and processing instructions

The additive is easy to incorporate in high-solid polyurethanes systems and can be incorporated during any stage of the production process.

Special note

It is recommended to evaluate the impact on interlayer adhesion.



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