

D2245

Product Introduction:

HB-2245 is a silicone polymer with low viscosity and low surface tension. It can give good spreading, wetting, and permeability properties, and provide good spreading and wetting to difficult-to-handle substrates, such as high-smoothness packaging materials like PE, PP, and PET. It is suitable for printing inks, decoration of plastics, metals, and wood, as well as industrial coatings. As a wetting agent and leveling agent in waterborne, UV-curable, traditional solvent-based, and high-solid coatings, it has both recoatability and gloss retention characteristics. This product is widely used in waterborne PU coatings.

Product Features:

- ◆ Excellent wettability
- ◆ Efficient leveling speed and leveling property
- ◆ Recoatability

Applicability

Water-base	Solvent-base
●	●
Solvent-less	Bicomponent
●	●
Paint	Varnish
●	●
○ Unsited ◎ Partially suited ● Suited	

Application

- ◆ Waterborne PU coatings

Recommended addition

0.1-1% based on the total formulation.

Technical information

Chemical composition	Polyether modified polydimethylsiloxane
Active content	100%
Appearance	Clear to yellowish transparent liquid
Viscosity (mPa·s, 25℃)	30-120
Water solubility	Soluble
Density (g/cm³, 20℃)	1.01-1.05
Surface tension (mN/m, 25℃)	< 25
Refractive index (25℃)	1.4300-1.4500

Solubility

Water, alcohols, alkanes and aromatics can be diluted at any ratio. But it may cause turbidity or precipitation in the system with ester solvents. Please contact the technical department when it is not suitable.

Chemical usage process

Can be added at any stage in the production process. This product is better be diluted with a suitable solvent first.

Taboo

Avoid mixing with other additives. Below the freezing point, turbidity may occur, but it will return to its original state upon warming. For applications requiring high precision, re-evaluation of suitability is recommended.

Specification

25 kg/drum; 200 kg/drum

Storage and shelf life

- ◆ Transportation and storage of non-hazardous chemicals
- ◆ Cool, dry and sealed storage
- ◆ Shelf life: 12 months from the date of production
- ◆ Transportation and storage of non-hazardous chemicals

This information and all further technical suggestions are based on our existing knowledge and experience. However, such information and technical advice do not mean that we should bear any debts or other legal responsibilities, including those related to existing third-party intellectual property rights, especially patent rights. In particular, we have no intention to make or imply any legal guarantee or guarantee on product attributes. We reserve the right to make any changes based on technical progress or further development. Customers are still obliged to carefully inspect and test the products they buy. The performance of the products mentioned in this statement shall be determined by tests, which shall be conducted only by qualified experts and independently by customers. Quoting trade names used by other companies does not mean recommending any products, nor does it imply that similar products cannot be used.