

Hydrophobic Modified Ethoxylated Urethane

Technical Data Sheet

Name: Vesmody® U300
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Product Description

Vesmody® U300 is a nonionic urethane rheology modifier, a suitable thickening agent for any waterborne painting system, especially for architectural coating, industry coating, Wood coatings as well as water-based ink. Vesmody® U300 is an efficient rheology modifier allows formulating paints with a Newtonian rheology profile with excellent flow and leveling. Vesmody® U300 is prepared with specific Unicap™ technology of Wanhua. It is ultra-low VOC, ultra-low odor, free of alkylphenol ethoxylate (APEO), tin compound and any organic solvent, is specifically designed for applications where a low odor or low VOC is required. Solvent: water. Biocide: (CMIT/MIT = 3:1) 8.5 ppm, MIT 250 ppm.

Properties

1. Tin-free, Solvent-free, Apeo free
2. Ultra-Low odor, Ultra-low VOC
3. Excellent high-shear viscosity thickening efficiency
4. Excellent flow and leveling
5. Excellent water and alkali resistance
6. Use over a wide pH range

Characteristic data *

Property	Value	Unit	Method
Appearance	Translucent to slightly milky-white liquid		
Weight Solids	19-21	%	WHPU/T011-571-2017 (4cm,150°C,20min)
pH	6.0-7.0		GB 6920-1986, 25°C
Viscosity	3000-8000	mPa·s	Brookfield RV, 5#/30rpm, 25°C
Density	1.04	g/cm ³	GB/T 4472-2011, 25°C

*These properties are typical but do not constitute specifications.

Instructions for use

Vesmody[®] U300 is supplied as a pourable and pumpable liquid, it is easy to use and can be added in any formulation time directly. Depending on the character and amount of the emulsion as well as filler and pigment, the amount of the addition is variable, probably 0.1-3.0% by weight of the formulation in its supplied form. The exact amount required in each formulation should be determined by pre-trials.

Storage

The product should be stored in dry conditions above 5°C and below 35°C with the integrity of the packaging, and prevent direct sunlight. The validity of this product is for 12 months, performance assessment is recommended before use after shelf life. The product should be protected from freezing during storage. After opening the packing, suggested to use up one time.

Disclaimer: Wanhua Chemical Group Co., LTD. recommends that any customers of this material should check with Materials Safety Data Sheet (MSDS) for details about safely handling this material. We also suggest that you contact the suppliers of any other materials used in our recommended formulations and suggestions for appropriate health and safety regulations prior to use. The information contained herein is believed to be reliable. However, nothing in this technical sheet should be considered as a representation of warranty, express or implicit, regarding the product characteristics, application, quality, safety, merchantability or fitness for a particular purpose. Nothing contained herein is to be considered as permission, recommendation, nor as an inducement to practice any patented invention without permission of the patent owner.