Polyurethane rheological modified thickener

RT-3627

Features and advantages:

RT-3627 is one of the non-ionic association thickener series products modified by polyurethane and hydrophobic groups. It does not contain organotin and APE0 compounds, and is a low odor, environmentally friendly and efficient rheological modification agent with low and medium shear viscosity. It is characterized by high active component content, low shear viscosity and high thickening efficiency to meet the needs of different product performance design:

RT-3627 has excellent flow resistance and good in-tank structure, while still allowing latex coating products to have good flow and leveling properties. The RT-3627 can be used in a variety of interior and exterior coating formulations. Especially suitable for waterborne industrial coating formulations, other associated thickeners such as RT-3629/RT-3631 are used in combination for better brush/roller dip and excellent flow/flow balance. RT-3627 can be used for high light, semi-light, mercerizing and flat acrylic, vinegar and acrylic emulsion formulation.

In water-based adhesive systems, polyurethane thickeners represented by RT-3627 provide stable thickening properties.

Product specifications:

Appearance	Pale milky or translucent liquid
Effective portion	50%
Solvent	Ethylene glycol monobutyl ether/water
Density	1.05 g/cm³(25°C)
Viscosity	12000-20000 mPa·s(25°C)
Chemical type	Non-ionic association type HEUR

The data contained in this publication are based on our current knowledge and experience. In view of the many factors that may affect processing and application of our product, these data do not relieve processors from carrying out their own investigations and tests; For more information, please visit: https://www.rk-chem.com

Usage:

RT-3627 can be used in a variety of different coatings and adhesive formulations, and has excellent compatibility with many other thickeners. RT-3627 should usually be used in combination with other thickeners such as RT-3629 or RT-3631 to achieve the best balance between high, medium and low shear seats.

The amount of use of this product is determined according to the customer's formula design, and the recommended addition amount is 0.1%~0.5%. Customers can use other thickeners according to the different requirements of production, storage, construction and film formation to meet the rheological performance requirements of the formula design. In paint production, RT-3627 is generally added when mixing paint, and customers can also determine according to actual production conditions. However, if RT-3629 or RT-3631 is also used in the formulation, RT-3629 or RT-3631 should be added first to ensure smooth and rapid thickening. Under the production conditions of insufficient stirring, it should be diluted with 1:1 aqueous solution of ethanol or propylene glycol. RT-3627 should not be used with polyacid homopolymer dispersants.

Packing:

25 or 200 kg plastic drum and ton drum packaging

Storage:

The product should be stored in a cool, dry and ventilated warehouse under closed conditions, and certain anti-freezing measures should be taken during winter storage and transportation (if frozen, it can continue to be used after proper mixing after defreezing). The recommended storage temperature is 1-49°C. Validity :24 months (under specified storage and transportation conditions). This product does not belong to the chemical dangerous goods, according to the transport regulations of non-hazardous chemicals.

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