

Polyurethane rheological modified thickener

RT-3630

Features and advantages:

RT-3630 is one of the non-ionic association thickener series products modified by polyurethane and hydrophobic groups. It does not contain organic solvents, organotin and APE0 compounds, and is a non-toxic, low-odor, environmentally friendly rheological modification agent with high shear viscosity thickening and leveling.

RT-3630 not only has excellent thickening effect of high shear viscosity, but also its thickening system has excellent fluidity and leveling, and its rheological characteristics are close to Newtonian flow type, especially suitable for various high emulsion formulation systems to achieve excellent leveling effect and film fullness.

In the design of water-based building and industrial latex paints, the leveling properties and viscosity at high shear rates are directly related to the characteristics and effects of latex paint roller application. The viscosity at high shear rate is related to the feel characteristics of the brush coating, the film forming performance of the film, the consistency of the compact pass and the film thickness, and directly affects the life span, water resistance, stain resistance, scrubbing resistance and appearance characteristics of the film.

The excellent thickening efficiency of RT-3630 products at high shear rates and effectively controlled thickening efficiency at medium shear rates are reliable guarantees for the realization of these properties.

1. No organic solvents, no organotin compounds, no APE0 compounds, non-toxic and tasteless, safe to use, does not increase the content of organic volatiles in water-based latex paint.
2. Excellent high shear viscosity thickening efficiency and effectively controlled medium potential shear viscosity, to help a variety of high emulsion dosage formula system to achieve high shear viscosity, in order to achieve excellent film leveling effect and outstanding fullness.
3. Good brush feel, excellent roller coating resistance, water resistance, alkali

resistance, scrubbing resistance, stain resistance and water resistance.

4. Excellent flow, leveling performance and hiding effect, uniform film thickness and film fullness, does not affect the gloss characteristics of the film.

5. Low viscosity liquid products, can be easily added at any stage of coating production, do not need to dilute before use, do not need alkali neutralization, flow level and thickening performance can be achieved in an instant.

6. Non-ionic association thickener, its performance is not affected by pH value, can be used in a wide pH range.

7. Resistance to microbial and enzymatic degradation.

Product specifications:

Appearance	Pale milky or translucent liquid
Effective portion	25%
Solvent	water
Density	1.05 g/cm ³ (25°C)
Viscosity	1800-3000 mPa·s(25°C)
Chemical type	Non-ionic association type HEUR

Usage:

The high shear viscosity efficiency of this product is a simple linear proportional relationship with the amount of use, the amount of use is determined according to the customer's formula design, the recommended addition amount is 1.0%-3.0%, the customer can also use other thickeners according to the different requirements of production, storage, construction and film formation, in order to meet the rheological requirements of the formula design.

Packing:

25, 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

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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.