

RT2020 Polyurethane Leveling Agent

Product Description

RT2020 is a non-ionic polyurethane leveling agent designed for high-gloss low-PVC systems. With weak associative properties, it effectively improves high shear viscosity while providing mild thickening without causing delamination. This product enhances water-based coatings with excellent leveling performance, high gloss, and superior film hardness and fullness. It demonstrates outstanding brush retention, splash resistance, water resistance, and water separation resistance. The agent exhibits low foaming, excellent film-forming properties, high transparency, and prevents fogging defects. Additionally, it offers antimicrobial and anti-mold properties. Free from organic tin, it is an environmentally friendly product.

Typical Properties

Property	Typical values
Appearance	A slightly turbid to transparent liquid with a faint characteristic odor.
Solid content(wt%)	20.0±1
pH value(20°C)	7.0±1
Density(g/ml,20°C)	1.04±0.02
Brookfield viscosity(cP, 25°C)	≤8000

Use & Compatibility

Recommend dosage of RT2020 is 0.1-1.0%, which should be added slowly during stirring process and dispersed at high speed. It is suggested to add this additive before emulsion formulation to achieve high gloss performance. The dosage should be appropriately adjusted according to the viscosity requirements of the product.

RT2020 is engineered for versatile coating formulations, delivering performance across matte to high-gloss finishes for both interior and exterior walls. It excels in styrene-acrylate, polyacrylonitrile, and vinyl-acrylic systems, particularly for high-gloss, high-hardness surface finishing. Widely adopted in water-based industrial paints, it prevents fogging defects while ensuring optimal film fullness.

RT2020 demonstrates excellent compatibility with both cellulose-based and alkali-swelling thickeners, allowing for flexible combinations of these two types of thickeners.

RT2020 is not recommended for use as a primary thickener alone; it is more effective as a synergistic thickener to achieve optimal flowability.

Packaging and Storage

Packaged in 50kg and 200kg IBC plastic drums, the container remains sealed. With a storage period of 12 months at 5-35°C and protected from light and heat.



Customer Notice

The information contained herein is offered in good faith and is believed to be accurate. However, because conditions and methods of use of our products are beyond our control, this information should not be used in substitution for customer's tests to ensure that our products are safe, effective, and fully satisfactory for the intended end use. Suggestions of use shall not be taken as inducements to infringe any patent.

CELOTECH RUICO does not warrant or guarantee the effectiveness of our products added to any textile fiber or fabric. Before putting into mass production, multiple trials and tests must be done in accordance with your company's production technology, in order to obtain the corresponding certified standard. Mix well before use.

CELOTECH RUICO strongly encourages its customers to review both their manufacturing processes and their applications of CELOTECH RUICO products from the standpoint of human health and environmental quality to ensure that CELOTECH RUICO products are not used in ways for which they are not intended or tested.

CELOTECH RUICO personnel are available to answer your questions and to provide reasonable technical support. CELOTECH RUICO product literature, including safety data sheets, should be consulted prior to use of CELOTECH RUICO products. Current safety data sheets are available from CELOTECH RUICO.