

Water-based bismuth drying agent

RT-3900

Features and Advantages:

The RT-3900 water-based bismuth catalyst is an environmentally friendly, water-based organic bismuth catalyst.

1. Safety: It is not classified as a hazardous substance and is safe to transport;
2. Environmental friendliness: As a new-generation, eco-friendly catalyst, it contains no restricted heavy metals such as mercury, lead or tin;
3. Ease of use: A water-soluble liquid that dissolves completely in aqueous systems; it offers better hydrolysis and acid resistance than traditional oil-based organic bismuth and tin compounds or powdered catalysts, and delivers higher catalytic efficiency;
4. Low energy consumption: When used in cathodic electrocoating systems, it requires a lower baking and curing temperature than DBTO and powdered bismuth.

Product Specifications:

Appearance	Colorless to pale yellow transparent liquid
Active Ingredients	$24 \pm 2\%$
Density	$1.120 \pm 0.030 \text{ g/cm}^3$
Bi%	$8 \pm 0.5\%$
pH	3 ± 1
Solubility	Miscible with water in any proportion

Application fields:

Cathodic water-based electrophoretic coatings and water-based polyurethane coatings, etc.

Usage and dosage:

Mix this product with the acid in the required ratio beforehand, then incorporate it into the aqueous emulsion formulation at a concentration of approximately 1 per cent (depending on the product's activity and formulation). Be sure to carry out stability and durability tests prior to incorporation.

Note: Before mixing this product with a neutralising acid (lactic acid, glacial acetic acid), add an appropriate amount of water to the acid first to enhance mutual solubility; otherwise, there is a risk of cloudiness or precipitation. After use, seal the container tightly to prevent moisture evaporation and store in a cool place.

Packing:

25KG or 200KG iron drum.

Storage:

Keep away from sources of fire and light; store in a dark place.