



## Technical Data Sheet

**Product Name:** Eco-friendly PU Catalyst CUCAT-TD01

### Typical Properties:

Appearance	Colorless to amber transparent liquid
Colour (Fe-Co)	≤12
Density (g/cm <sup>3</sup> , 25°C)	1.060
Viscosity (mPa.s, 25°C)	30 ± 130
Odor	With slight smell

**Solubility:** Easily soluble in general polyurethane raw materials such as polyethers, polyester polyols, etc

### Eco-friendly Characteristic:

This product does not contain regulated heavy metals or restricted components of ortho benzene, and does not affect the applicability of polyurethane materials to strict environmental regulations at home and abroad.

### Features & Advantage:

CUCAT-TD01 is an environmentally friendly catalyst developed to improve the reaction activity of isocyanates and secondary amino groups (such as polyaspartic acid), with the following characteristics:

- **Targeted catalytic properties:** Strong selectivity for catalytic reactions between isocyanates and secondary amino groups. It can effectively reduce the CO<sub>2</sub> bubbles generated by the reaction of trace moisture in raw materials/substrates/air with isocyanates, and avoid the occurrence of pinholes, bubbles, bulges, and other phenomena in the product;
- **Long Pot life:** Fully maintain the original low viscosity of polyaspartic polyurethane materials during the mixing process, with good fluidity after mixing, which is conducive to reducing bubbles generated during mixing and rapid leveling.
- **Fast curing and molding:** The addition of catalysts significantly shortens the surface drying time, saves construction time, and reduces costs while not affecting the construction period.
- **Non deactivation at low temperature:** It can significantly shorten the film-forming and curing time for outdoor construction in winter, shorten the construction period, and save labor.

### Applications:

It can be used for polyurea and polyurethane urea coatings such as handmade polyurea floor coatings, adhesives, etc., which use secondary amines such as polyaspar resin as chain extender.

### User's Guide:

- It is recommended to be added into active hydrogen components such as amino groups and stir evenly. It is not recommended to be added into isocyanate components;
- The dosage is related to the formula and process, and the general dosage is 0.1-0.3% of the weight of polyol component.

### Package & Storage:

25kg/200kg in HDPE drum. Product should be stored in a cool, dry warehouse away from sunlight, excessive heat and rain. After normal use, the tank mouth must be closed immediately.

**Shelf Life:** The unopened shelf life is 18 months from the date of manufacture. After the shelf life, if testing result shows the catalytic activity is qualified, it can still be used.

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