



Technical Data Sheet

Product Name: Bubble free PU catalyst CUCAT-FS01 for two-component waterproof coating

Typical Properties:

Appearance	yellowish transparent liquid
Colour (Fe-Co)	≤3
Density (g/cm ³ , 25°C)	0.99
Viscosity (mPa.s, 25°C)	25-60
Odor	Slight odor

Solubility: Easily soluble in general polyurethane raw materials such as polyether polyol, etc.

Eco-friendly Characteristic:

Comply with international and domestic environmental regulations. It is an eco-friendly substitute for toxic organomercury and tin catalysts.

Unique Functions:

- **Reduce the phenomenon of bubbling, bulging and peeling, and make PU dense without bubbles and more waterproof.** It is developed for the requirement of polyurethane waterproof coatings without bubbles, it has targeted catalytic properties that do not catalyze or weakly catalyze the reaction of isocyanates with trace moisture, which effectively reduces CO₂ bubbles generated by the reaction of isocyanates with trace moisture in the raw material and environment. Whether for MDI or TDI systems, it particularly effective in reducing the occurrence of multiple bubbles, pinholes, cracks, bulges, peeling, and other phenomena in high-temperature and high humidity environments, improving the adhesion fastness of PU coatings to substrates, especially wet substrates, significantly improving water impermeability, and significantly improving the quality of polyurethane waterproof coatings. While using T-12 with the same formula inevitably causes problems such as foaming and bulging.
- **Improve the performance of polyurethane waterproof coating and prolong its waterproof life.** The highly selective targeted catalytic reaction results in higher molecular mass, better mechanical strength, and compactness without bubbles, greatly extending the service life of the PU coating.

User's Guide:

- It is recommended to be added into component P (Polyol / MOCA component), The addition amount is 0.05-0.3% of component P (subject to the formula and process requirements); It can also be added to component I (ISO, isocyanate component), but the test of stability and durability must be carried out before batch production.
- After use, immediately close the tank mouth.

Handling & Storage:

Product should be stored in a cool, dry environment away from sunlight, excessive heat and rain.

Package: 25kg/200kg in HDPE drum

Shelf Life: The unopened shelf life is 24 months from the date of manufacture.

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