



Technical Data Sheet

Product Name: Polyurethane Catalyst CUCAT-TY01

Typical Properties:

Model	Appearance	Colour (Fe-Co)	Density g/cm ³ (25°C)	Viscosity mPa.s (25°C)	Odour
CUCAT-TY01	Yellow clear liquid	≤ 3	0.989	13	With mild odour

Environmental protection: Complies with domestic and international environmental regulations for polyurethane plastic racetracks; It is an ideal substitute for traditional organic lead/mercury/tin catalysts.

Solubility: It is easily soluble in general PU raw material such as polyether polyol, Chlorinated plasticizers, eco-friendly solvents, etc.

Features & Performance:

CUCAT-TY01 enhances curing activity, more suitable for low free isocyanate or TDI/MDI mixed isocyanate systems, with the characteristics as following:

- ❖ **Environmentally friendly and free of heavy metals.** Will not cause harm to construction workers and the environment.
- ❖ **Avoid bulging and ensure synchronous surface and inteneral drying.** Due to the targeting properties that it prevents trace amounts of moisture in the raw material/air from reacting with the isocyanates to produce CO₂, effectively avoiding the problems of bulging/large bubbles that are prone to occur when using tin/bismuth/zinc catalysts;
- ❖ **Ample flow time and long pot life.**
- ❖ **Excellent post curing performance.** On the premise of maintaining good liquidity in the early stage, compared with the composite catalysts of bismuth and zinc, it has the characteristics of faster drying, effectively shortening the construction time.
- ❖ **Cost reduction, high activity, and high cost-effectiveness.** High activity and low dosage, compared with the composite catalysts of bismuth and zinc, it is more cost-effective, with a general addition amount of 0.1-0.2% (by weight of Polyol component).

Applications: It is widely used in two-part polyurethane plastic sport track resin and sport flooring.

User's Guide:

- Suggest adding into polyol part (the component of polyether polyol and crosslinker) and stirring evenly. It is better add on-site and mix during construction. It is not recommended to be added into isocyanate part. If it is a must, the feasibility test must be carried out first to avoid risks of gelling in the synthesis process and storage period.
- Be sure to seal tightly immediately after use.

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. After the shelf life, if the catalytic activity still meets the needs after test, it can still be used as qualified products.

All recommendation and technical information (whether verbal, written or by way of product evaluations), including any suggested formulations contained herein is provided for information purpose only and does not constitute a legal contract as well as suitable for relating to the third party rights. The conditions of your use and application of our products, technical assistance and information are beyond our control. Therefore, no guaranty or warranty for your evaluation is made. Consequently the user assumes all risks in connection with the use and handling of this product based on our technical information and recommendations, final determination of suitability of this product is the sole responsibility of the user. (Version 201701)