



CUCAT-SW02D Polyurethane Catalyst

CUCAT-SW02D is applicable for polyester PU. It does not contain the eight heavy metals. The polyurethane material synthesized by this product complies with international conventional industrial environmental protection regulations and is an environmental protection substitute for eliminating traditional organic mercury, lead, tin and other toxic catalysts.

Typical Properties	Appearance	Light yellow to red transparent liquid
	Density (g/cm ³ , 25°C)	1.060
	Viscosity (mPa.s, 25°C)	5 ~ 40
	Smell	With special compound smell

Solubility

Applications

It is suitable for polyurethane synthesized from polyester polyols, especially adipic acid polyester polyols, such as "MDI + polyester polyol" and other material of two or three components using small molecular alcohols such as butanediol or ethylene glycol as curing agent, polyester polyol combination such as "TDI + MOCA or other small molecular alcohol as chain extender and curing agent". It is suitable for normal temperature and medium temperature curing process, typical applications such as transparent outsole shoe glue, KPU vamp glue, mine screen, caster, etc.

Advantage Descriptions

CUCAT-SW02D is specially developed for polyester polyol polyurethane system. Different from common amine / tin catalysts, CUCAT-SW02D has the following characteristics:

- ▲ **Tin free:** meet the environmental protection requirements of shoe materials, clothing and other export products.
- ▲ **no bulging and reduce bubbles:** the unique targeted catalytic characteristics can effectively reduce CO₂ bubbles generated by the reaction of trace water with isocyanate and avoid quality problems such as bulging, bubbles and cracking.
- ▲ **Low viscosity and long flow period, no fracture of fine glue filament:** the initial viscosity of material mixing rises slowly and has good fluidity. It can quickly fill the complex mold cavity to ensure the continuous gluing of fine patterns of complex molds.
- ▲ **Fast post curing speed:** the strength of the gel rises quickly after gelation, and improves the production efficiency.

User's Guide

- ▲ It is recommended to be added into polyol (material P) on site during production and stir evenly. If there is a vacuum process, it is recommended to add it after dehydration / degassing; It is not recommended to be added into ISO (I) components, for the long-term storage may have a risk of gelation. If added, risk assessment is needed.
- ▲ The dosage is related to the formula and process. The general dosage is 0.05 ~ 0.5% of the weight of P material.
- ▲ During normal use, ensure that the cup or other container containing the product is clean and dry, and ensure that the tank mouth is closed immediately
- ▲ It is normal that the color of the product may gradually darken during storage, which generally will not affect the color of the product.

Handling & Storage

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

Package

25kg/200kg in HDPE drum

Shelf Life

The unopened shelf life is 12 months from the date of manufacture. After shelf life, please do test to make sure the catalytic properties before use.

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. (2018 version)