



Technical Data Sheet

Product Name: Eco-friendly PU catalyst WCAT-WS12A for one component moisture-cured system

Characteristic Description:

Appearance	Yellowish transparent liquid
Colour (Fe-Co)	≤6
Density (g/cm ³ , 25°C)	1.005 ± 0.02
Viscosity (mPa.s, 25°C)	45 ± 20
Odor	With slight odor

Solubility: Insoluble in water, easily soluble in general polyurethane raw materials such as polyether polyol plasticizer

Eco-friendly Characteristic: It does not contain o-benzene and other environmental restricted ingredients.

Unique Performance:

WCAT-WS12A is developed according to the principle that one component moisture-cured PU material is cured and molded by the reaction of moisture in the environment with isocyanate groups. It is similar to T-12 (dibutyltin dilaurate) and has the following unique performance:

- **It has sufficient pot life, and effectively reduces bubbles and bulges.** Under high temperature, the operation time is sufficient, the construction leveling is good, and the bubbles can fully overflow, so as to reduce the bulging phenomenon on the surface of silicon PU after curing.
- **Large tolerance of usage.** During high-temperature construction in summer, the appropriate increase or decrease of dosage has little impact on the flow time in the early stage on the premise of ensuring the surface and body drying.
- **Reduces the risk of storing gel. Long storage period.** Compared with T-12, the viscosity increases less during storage and the storage stability is far more better.
- **The color is light and does not affect the material color.** It can be used in transparent adhesives and prepolymers.

Applications:

It is recommended for use in moisture cured polyurethane systems, especially in transparent prepolymers and adhesives, with good storage stability and no impact on material color.

User's Guide:

- It is recommended to be added after the prepolymerization reaction of MDI / TDI with polyether polyol. It is not recommended to premix in polyether polyol in advance during synthesis to avoid gel accident caused by violent reaction.
- The dosage is 0.02-0.15%, which can refer to the dosage of T-12. Due to the different packaging containers and processes of the user, it is suggested that the user must first conduct storage stability test.
- This product has certain hygroscopicity. Do not expose it to the air to prevent water absorption. After normal use, the tank mouth must be closed immediately to avoid open placement.

Package & Storage:

25kg/200kg in HDPE drum

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

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

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