



Technical Data Sheet

Product Name: Polyurethane Anticatalyst NCAT-YC02

Product Brief:

NCAT-YC02 is Polyurethane Polymerization Inhibitor, which is also called Polyurethane Anticatalyst or Polyurethane Negative Catalyst. It can effectively delay the reaction speed of polyurethane reaction and make the material have longer low viscosity operation time.

Typical Properties:

Model	Appearance	Density g/cm ³ (25℃)	Viscosity mPa.s (25℃)	Smell
NCAT-YC02	Colorless transparent liquid	1.065±0.02	1-10	Slight special smell

Environmental protection:

It does not contain heavy metals, polycyclic aromatic hydrocarbons, o-benzene plasticizer and other environmental restricted components, and complies with international general environmental protection regulations.

Solubility: Soluble in general polyurethane raw materials.

Applications:

It can be widely used in the process occasions of polyurethane industry where it requires to prolong the operation time. It is especially recommended for the MDI system and alcohol chain extension curing reaction system, such as MDI polyester system, PAPI + polyether PPG system, etc. And recommended to the products such as floor coatings requiring good leveling, adhesives for the production of thermal insulation plates, prepolymer of MDI glue, etc.

Features & Advantage:

Aromatic isocyanates, especially MDI, have high reaction activity, and the flowable time of two-component raw materials after mixing is relatively short, which can not meet the process requirements of some products requiring long flowable time and pot life, such as the floor coating that needs to be scraped manually, the adhesive for the production of thermal insulation plate, the filling of CPU complex mold, etc. The one component MDI glue (prepolymer) has the problem of short storage time and poor stability. NCAT-YC02 is developed to solve the above problems and has the following performance:

- ❖ Long flowable time and long pot life. It can effectively delay the reaction speed of polyurethane material and make the material have longer low viscosity operation time.
- ❖ Long shelf life. It can effectively prolong storage time of single component MDI glue (prepolymer), stabilize viscosity and prevent gelation.
- ❖ The physical properties of the material are not reduced. NCAT-YC02 is a non reactive polymerization inhibitor, which does not participate in the growth reaction of polymer segments and does not affect the physical properties of materials.
- ❖ Good compatibility. Good compatibility with polyurethane raw materials, no phase separation and precipitation.
- ❖ Good environmental protection. It does not contain restricted substances, and its environmental protection application is not limited.

User's Guide:

- It is suitable for all kinds of single and two-component polyurethane. For single component polyurethane, it is recommended to add and stir evenly after the reaction and before discharging; For two-component polyurethane, It can be added to the white material (polyol component) at any stage.
- The general dosage is 0.05 ~ 0.3% of PU weight.



➤ Be sure to seal and store 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 18 months from the date of manufacture. After expiration, it can still be used if it passes the inspection.

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