



Technical Data Sheet

Product Name: Organic Bismuth Zinc Catalyst BCAT-20BP & ZCAT-Z19P for PU sport track

Typical Properties:

Model	Appearance	Colour (Fe-Co)	Density g/cm ³ (25°C)	Viscosity mPa.s (25°C)	Metal Content	Smell
BCAT-20BP	Colorless to yellowish transparent liquid	≤ 3	1.135-1.175	100±50	20±0.5	With special compound smell
ZCAT-Z19P			1.112-1.152	3200±1000	19±0.5	

Environmental protection:

It does not contain restricted heavy metals, polycyclic aromatic hydrocarbons, phthalates and other components, and is an environmentally friendly substitute for traditional organotin, mercury, lead and other catalysts.

Solubility: Easily soluble in normal polyurethane raw material.

Features & Advantage:

Organic bismuth BCAT-20BP and organic zinc ZCAT-Z19P, with typical characteristics of bismuth zinc catalysts, are used for plastic runways and have the following characteristics:

- Organic bismuth BCAT-20BP promotes the NCO/OH reaction, which can to some extent reduce the side reactions between water and NCO groups and reduce the generation of CO₂. However, the targeted selectivity for reducing the reaction between isocyanates and water is not as good as that of the Yourun CUCAT series catalyst products;
- Organic zinc ZCAT-Z19P, as a polyurethane catalyst with weak catalytic activity, is not used alone in most cases and is used in combination with organic bismuth. The weak catalytic properties of organic zinc make the flow period of materials long after mixing, which is beneficial for construction operations;
- The two models have good compatibility and can be combined in any proportion according to construction requirements, so as to achieve the effect of long operation time and fast post curing.

User's Guide:

- For plastic runway materials, it is recommended to add into polyol (P material) components. It is recommended to add after dehydration and stir evenly;
- It can also be added during on-site construction, with an appropriate amount added according to the construction environment temperature to achieve the best process effect;
- The usage amount is related to the formula system, generally ranging from 0.1 to 0.5% of the weight of P material;
- The viscosity of this product is moderate. If it needs to be diluted, it is recommended to use D40 or other isomeric alkane solvent oils to achieve the best effect. It can also be diluted with polyethers, plasticizers, etc;
- It is not recommended to add it to the isocyanate component (material I). If it is must, it is necessary to conduct suitability and storage stability experiments first.
- 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.

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