

## AUCAT-RM301 Polyurethane Catalyst

AUCAT-RM301 is a thermal sensitivity delay catalyst. It does not contain mercury, lead, tin, nickel, polycyclic aromatic hydrocarbons, o-benzene plasticizer and other environmental limiting ingredients, which complies with international environmental protection regulations. It is an eco-friendly substitute for strictly controlled organic mercury, lead, tin, nickel and other metal catalysts.

Typical Properties	Appearance	Dark blue liquid
	Density (g/cm <sup>3</sup> , 25°C)	1.061
	Viscosity (mPa.s, 25°C)	755±200
	Odour	Slightly special smelling.
Solubility	Soluble in polyether, polyester, and general polyurethane raw materials.	
Applications	AUCAT-RM301 has high catalytic activity for both aromatic and aliphatic isocyanates. It can be widely used in all kinds of polyurethane fields, especially suitable for products requiring long pre operation time and rapid curing by heating, such as physically foaming system with low compression deformation (mobile phone foam), elastic carpet / floor mat, solvent-free leather slurry, adhesives for electronic products, high hardness hand mould samples, etc.	
Advantage Descriptions	AUCAT-RM301 is a universal heat sensitive catalyst resistant to hydrolysis, and has a significant thermal sensitivity delay catalytic effect. At room temperature, the catalytic activity of the mixed materials is very low and nearly zero, the low viscosity and good flowability are maintained. The pot life of the mixed materials is very long, which fully meets the various process conditions of long-time fluidity. When the material reaches the thermosensitive excitation temperature, the catalytic activity increases instantaneously, and the gel and curing reaction can be completed in a very short time. The unique characteristics are as following:	
	Hydrolysis resistance. It can formula system, and the cata storage; To solve the technical zinc and other metal catalysts simpler, more stable and more	be premixed in advance and added into the water containing alytic activity is stable and does not decay after long-term problem of hydrolysis failure of common organic bismuth, tin, s in water containing formula, the formula and process are flexible.
	<ul> <li>Long pot life. In general, as lo excitation temperature, the flui complex shape, high hardness</li> </ul>	ong as the mixed material does not reach the thermosensitive dity will be maintained. It is very suitable for the production of PU and other products requiring ultra long pre flow time.
	<ul> <li>High catalytic activity at cur problems of poor fluidity in the of conventional Bi/Zn/Sn cataly</li> </ul>	<b>ing stage</b> , performing fast gel and post curing. To solve the early stage and insufficient catalytic activity in the later stage <i>i</i> st.
	Insensitive to water. Perform water, decreasing bubble, pink remarkable thermal sensitivity reaching the thermosensitive reaction than organic tin and m	ning weak catalytic activity to the reaction of isocyanate and nole, pitting, cracking and other problems obviously. It shows in all kinds of isocyanate / active hydrogen systems. After point, it has higher catalytic activity and more complete nercury.
	Clear temperature point of different isocyanates and active the range of 60-80 °C. It is for material are better when t thermosensitive point. The tee combination with AUCAT-201.	<b>thermosensitive mutation.</b> The thermosensitive point of /e hydrogen systems is different, and they are distributed in ound that the processability and physical properties of the he curing temperature is 10-20 °C higher than the emperature sensitive point can be reduced by appropriate
	The physical properties ar significant reduction in hardness strong gel thermosensitive arm to the reaction is more sufficient the PU material are improved.	<b>re not reduced of Polyurethane Material.</b> There is no as / elongation / tear strength, that are totally different with the ine catalyst. The mechanical properties are not reduced, due ent without disproportionation, and the physical properties of
	No sensitizing metal nickel, a	and the eco-friendly application is not limited.
User's Guide	It is suitable for two-componer (P material) component after va	nt / three component polyurethane. Suggest adding in polyol acuum dehydration (if necessary) and stir evenly.

Not suggest adding in isocyanate prepolymer (I material), if it is necessary to add, it is

•



## 广州优润合成材料有限公司

Guangzhou Yourun Synthetic Material Co., Ltd



necessary to conduct the applicability and storage stability test in advance.

- The dosage is related to the formula / process. The general dosage is 0.02-0.5% of the weight of P material.
- If lower temperature of thermosensitive point such as 50-60 °C or faster post curing is required, it is recommended to use AUCAT-201 or other catalysts in a wide range of 1:(0.2-2).
- Be sure to seal immediately after use.
- Handling & Storage Please store in a cool, dry environment away from sunlight and rain.
- Package 25kg/200kg in HDPE drum
- Shelf Life Unopened shelf life 18 months from the date of manufacture. After expiration, it can still be used if it passes the inspection.

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. (202001 version)