



替代有机汞铅锡

Substitutes for Organo-Mercury/Lead/Tin

聚氨酯环保催化剂

Eco-Friendly Polyurethane Catalysts

广州优润合成材料有限公司

GUANGZHOU YOURUN SYNTHETIC MATERIAL CO., LTD

202501

A green hexagon with a white border, containing the white number '1'.

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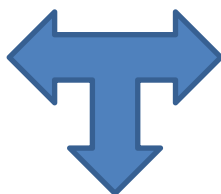
Company Profile



Company Profile



A High-tech Enterprise.



An Original Manufacturer



R&D Catalysts and Functional Additives



Company Profile



清远优创新材料科技有限公司

年产一万五千吨环保型多功能助剂及树脂新建项目



Factory Address

Qingyuan City

100 km (1 hour by car)
from Guangzhou

Production Capacity

Land area: 13500 m²

Building area: 17000 m²

Production Capacity:

15000 tons/year



2

Products & Applications



Product Series



**Leading
Products**

CATALYSTS

CUCAT Series
Non bubbles
Replace mercury / lead

AUCAT Series
Anti-hydrolysis with
good compatibility

WCAT Series
Moisture curing
system

FOCAT Series
Foam system

BCAT Series
Organo-Bismuth

ZCAT Series
Organo-Zinc

BX Series
Composite of Bi/Zn

TCAT Series
Organo-Tin

**FUNCTIONAL
Additives**

Dispersant
Rheological

Defoaming
Dehydrating

Anti-abrasion
Anti-static

Anti-oxygen
Anti-yellowing

Release Agent
Bonding Agent

**Latent Curing
Agent**

**CHAIN
EXTENDER**

**TDMA
Series**



Catalysts Characteristics

Eco-Friendly

Substitutes for Organo-Mercury/Lead/Tin

Targeting

Uncatalyzed moisture reacting with isocyanate without bubbles

Catalyzed the reaction of isocyanate and urethane group

Innovative Functions

Anti-Hydrolysis

Inactivation in water-base system

Thermo-sensitivity

Long potlife

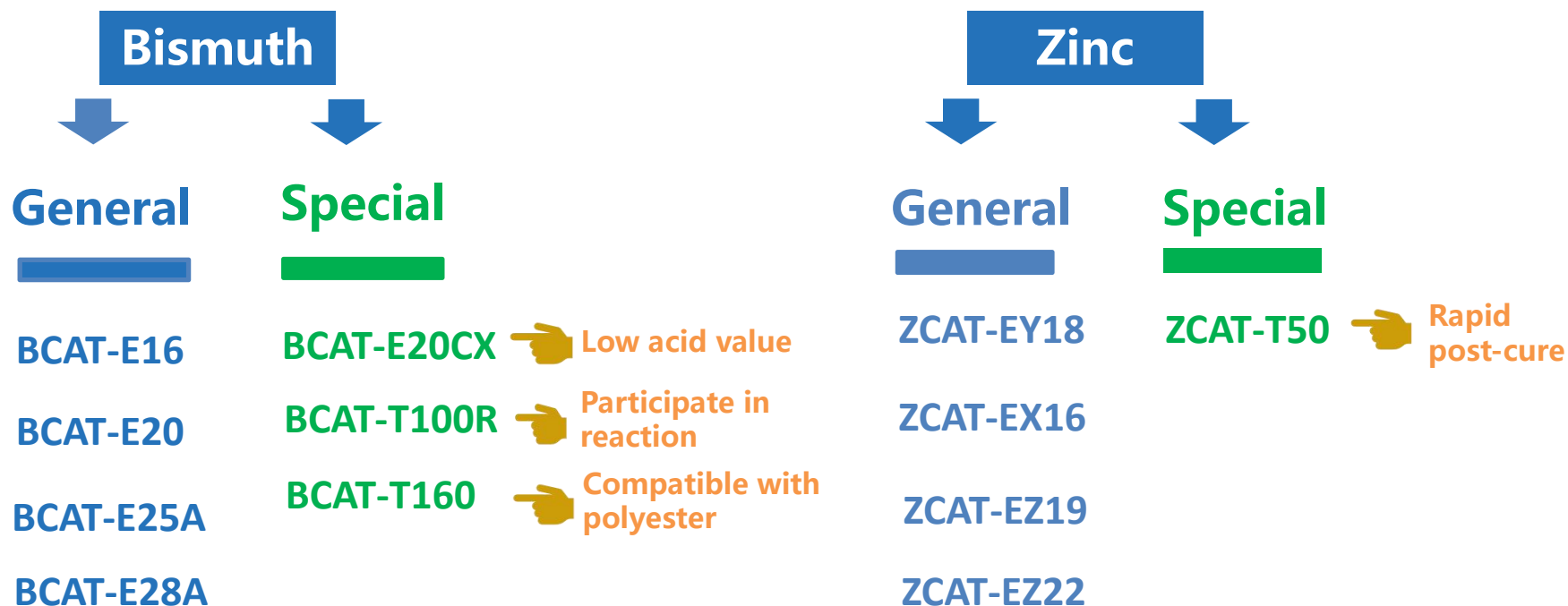
New Functions





Product: Organo-Bismuth / Zinc

- YOURUN organo-bismuth/zinc catalysts have seam quality with branded products.
- YOURUN is one of the most diversified manufacturers of organo-bismuth/zinc catalysts in the world.





Product: Organo-Bismuth / Zinc

Category	Model	Metal Content	Application	Analogue of Branded Products
Organic Bismuth (Representative Products)	BCAT-E16	$16 \pm 0.5\%$	General Purposed	Borchi Kat 315 VERTELLUS COSCAT 83 Shepherd BiCAT 8118 Umicore VALIKAT Bi 1610
	BCAT-E20	$20 \pm 0.5\%$	General Purposed	King K-KAT XC-B221 Shepherd BiCAT 8108 Umicore VALIKAT Bi 2010
	BCAT-E25A	$25 \pm 0.5\%$	two-part PU coating, Terminal-closed isocyanate baking paint.	Borchi Kat 24 King K-KAT XK-348 King K-KAT XK-651
	BCAT-E28A	$28 \pm 0.5\%$	PU resin, two-part PU coating, etc.	Borchi Kat 320 Shepherd BiCAT 8210 Umicore VALIKAT Bi 2810
Organic Zinc (Representative Products)	ZCAT-EX16	$16 \pm 0.5\%$	General Purposed, low viscosity.	Borchi Kat 15 Borchi Kat 0761 Umicore VALIREX Zn 16
	ZCAT-EZ19	$19 \pm 0.5\%$	General Purposed, high content.	Umicore VALIREX Zn 18 Umicore VALIKAT Zn 1910
	ZCAT-EZ22	$22 \pm 0.5\%$	General Purposed, high content and low viscosity	Borchi Kat 22 Shepherd BiCAT 3228 Umicore VALIKAT Zn 22
Composite Catalysts	BX-EM14	General Purposed, Bi:Zn=1:4		
	BX-EM23	General Purposed, Bi:Zn=2:3		





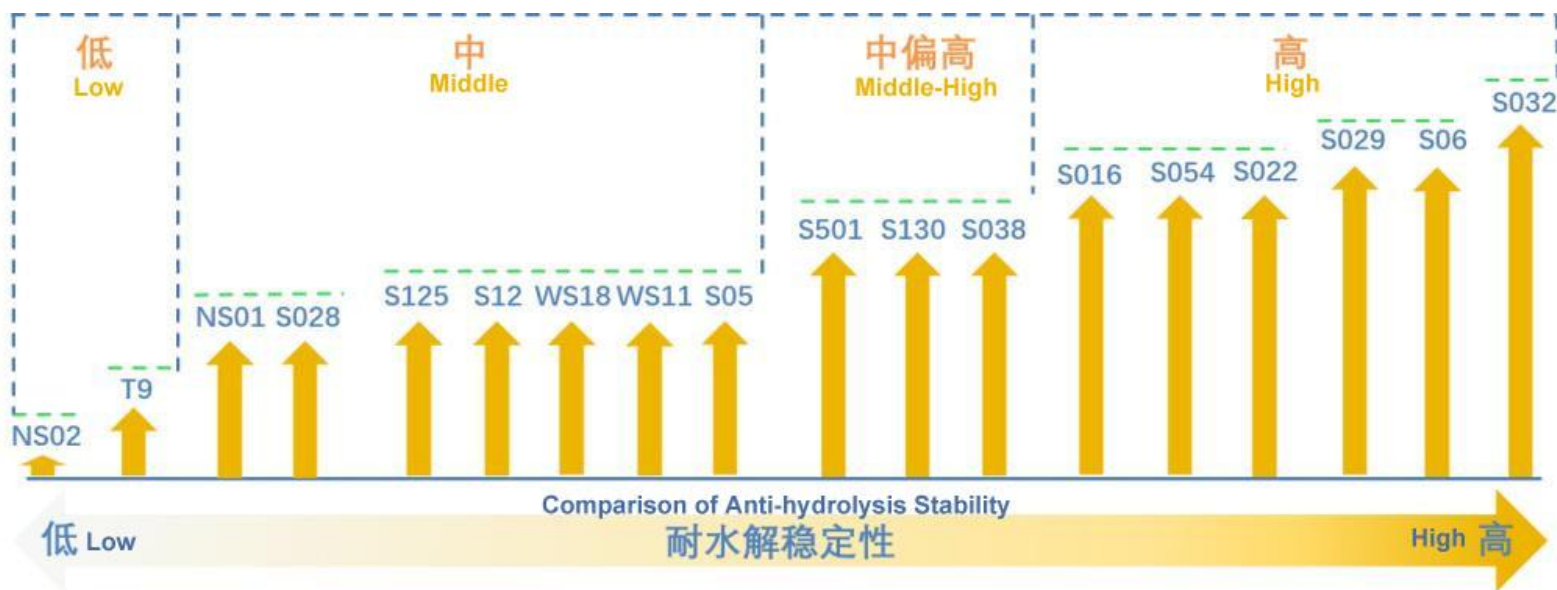
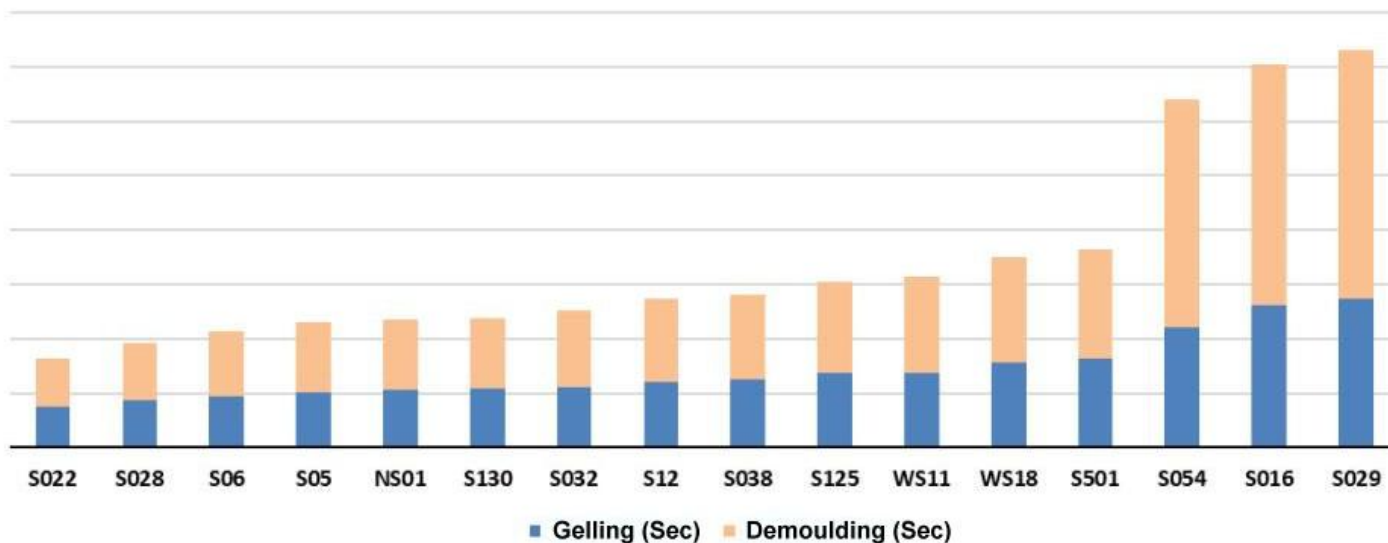
Product: Organo-Tin Catalysts

Yourun Type	Corresponding Type		Applications
	Company	Type	
TCAT-S05	NITTO日东化成株式会社	NEOSTANN U-280	General purpose
TCAT-S06	Momentive迈图	Fomrez UL-1	General purpose. Recommended for aqueous systems
	Evonik赢创	DABCO T120	
TCAT-S016	Momentive迈图	Fomrez UL-6	General purpose, especially recommend to long pot life requirement.
	NITTO日东化成株式会社	NEOSTANN U-340A	
TCAT-S022	Momentive迈图	Fomrez UL-22	General purpose, especially recommend to quick curing or high moisture content PU system.
TCAT-S028	Momentive迈图	Fomrez UL-28	General purpose
TCAT-S029	Momentive迈图	Fomrez UL-29; LC-5629	General purpose, especially recommend to long pot life requirement.
	Evonik赢创	KOSMOS 16	
	TIB Chemicals AG	TIB KAT 214	
TCAT-S032	Momentive迈图	Fomrez UL-32; LC-5632	General purpose. Recommended for aqueous systems
TCAT-S038	Momentive迈图	Fomrez UL-38	General purpose, low odor
TCAT-S054	Momentive迈图	Fomrez UL-54	General purpose, especially recommend to long pot life requirement.
TCAT-S059	Momentive迈图	Fomrez UL-59	General purpose, low odor
TCAT-S125	Evonik赢创	DABCO T125	General purpose, especially recommend to PU foam.
WCAT-NS01	NITTO日东化成株式会社	NEOSTANN U-220H	MS sealant, especially recommended for non-isocyanate modified MS sealant.
	TIB Chemicals AG	TIB KAT226	
	高斯米特TEGOKAT	TEGOKAT 226	
WCAT-NS02	NITTO日东化成株式会社	NEOSTANN U-303	MS sealant, keep liquid statues at low temperature ($< 18^{\circ}\text{C}$)
TCAT-S130	NITTO日东化成株式会社	NEOSTANN U-130	General purpose. especially recommended for MS sealant, esterification.
	高斯米特TEGOKAT	TEGOKAT 225	



Product: Organo-Tin Catalysts

Comparison of
Catalytic Activity



Comparison of
Anti-hydrolysis
Stability



Product: Organo Tin Catalysts

Yourun Innovative Product: Reactive & Zero TVOC Organic Tin Catalyst

TCAT-WS18

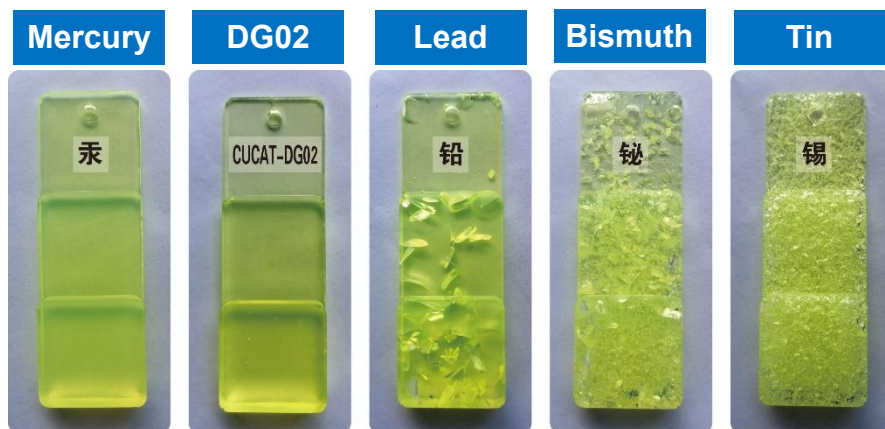
No migration in finished PU products.

Especially recommended for applications with low odor and no migration requirements.

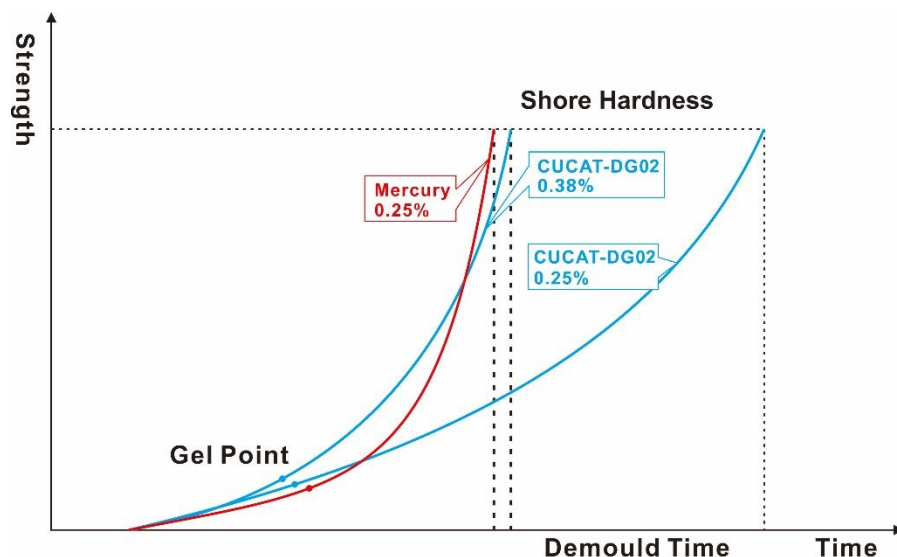




Product: CUCAT Bubble-free Catalysts



- Insensitive to moisture, uncatalyzed or weak-catalyzed the reaction of -NCO and H_2O , that can solve the problems of pinholes, bubbles, bulges and cracks.
- Solve construction problems which is processed under high temperature and high humidity conditions.
- Long potlife.
- Rapid post-cure to shorten process period.



T-80+PPG+MOCA



CUCAT Series: Substitutes for Organo-Mercury/Lead

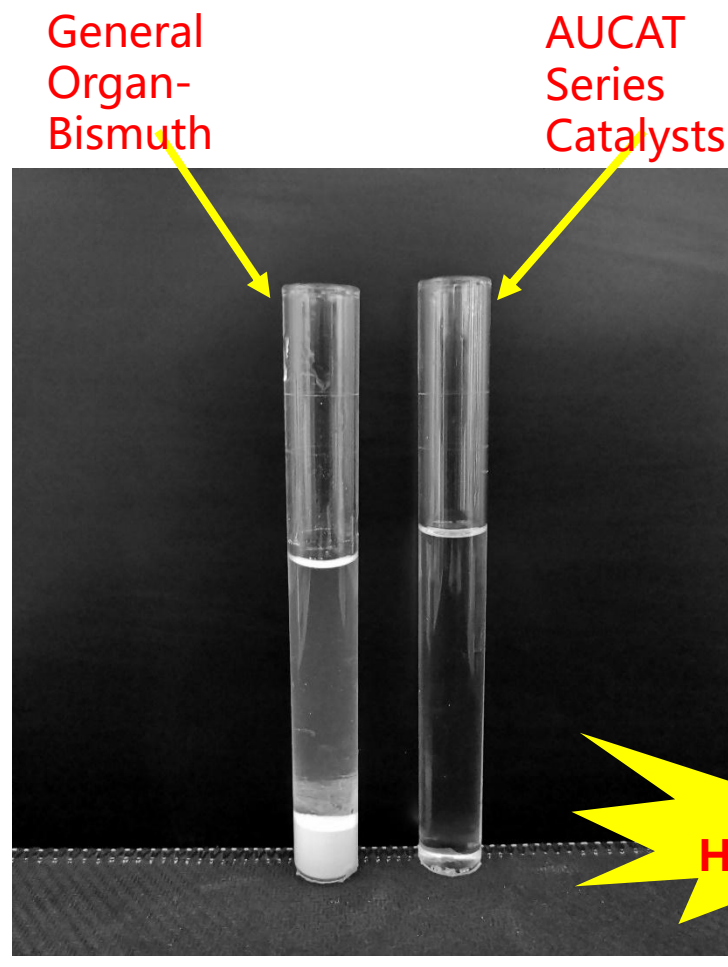
Category	Model	Suitable Formula Systems and Catalytic Features	Application
General Function	CUCAT-DG02	Polyether+ISO+MOCA	Wheels, Castors, Rollers, PU parts
	CUCAT-HAA	Very insensitive to moisture	General Purposed, suitable for CASE
	CUCAT-K6	Provide longer Pot life	General Purposed, suitable for CASE
	CUCAT-GF02	PAPI+Castor Oil; Slow in front but fast in later stage	PU Sealant for Electrical Encapsulation
	CUCAT-HA02	Polyether+MDI+Amine; Rapid increase in viscosity/strength; faster than bismuth at low temperature.	Spray Polyurethane-Urea, anti-aging.
	CUCAT-HS	MDI+Polyester/PTMG+BDO; Slow in front but fast in later stage	MDI elastomers, such as wheels, screen mesh
	CUCAT-HSF	MDI+PPG+BDO; Mild heating and fast curing	CASE field; Gentle gelling with small shrinkage.
	CUCAT-E02/E03/E06	TDI+Polyether+DETDA;	Transparent elastomer such as skating wheel no fogging, no opaque
	CUCAT-S01	MDI Systems, Delayed thermal activity type; Longer pot life than T12	Suitable for situations need longer pot life, such as extruded PU and moisture curing adhesive
	CUCAT-SW series	Polyester systems;thermal activity, Slow in front but fast in later stage	Screen Mesh, KPU shoe cover, solvent-free leather, etc
Thermal Sensitive	CUCAT-RM series	Low or almost no activity at room temperature; Long pot life, quickly cured when the temperature rises.	Suitable for process need even longer pot life but fast post curing, such as solvent-free leather, adhesive, etc.
Low TVOC	CUCAT-V series	Gelling catalysts, reactive type, zero VOC	Suitable for situations need low VOC, such as automobile sponge, plastic sport track,etc
Specific Function	CUCAT-U1	Targeted catalytic reaction between isocyanates and carbamate	Used for the synthesis of waterborne isocyanate curing agents, reducing viscosity, improving compatibility and chemical resistance
	CUCAT-G5A	Trimeric catalyst for isocyanate, mild activity	Synthetic TDI curing agent, reduce free TDI content (<0.5%)
	CUCAT-G2	Trimeric catalyst for HDI, mild activity	Synthetic HDI trimer, light color, not affect appearance
	CUCAT-WN series	Good solubility with sodium silicate, mild reaction	Used for curing systems of isocyanates and sodium silicate, such as coal seam reinforcement, etc



AUCAT Series: Anti-Hydrolysis Catalysts

Long-term storage in hydrous materials without deactivation.

- Long-term storage stability in waterborne latex without deactivation.
- Applying in PU foam as gel catalyst, that can be pre-added into polyol components.
- And other applications.....



Water content of the system: 30%

Catalyst content: 10%

Hydrolysis condition: two weeks in the 60 °C oven



AUCAT Series: High Compatibility in Polyester Polyol

No effect on transparent

- ▣ Applying in synthesizing of high transparent modified polyurethane UV resin.
- ▣ Applying in tin-free transparent PU shoe materials.
- ▣ And other applications.....

Organo-
Bismuth

AUCAT-101



**High
Compatibility**

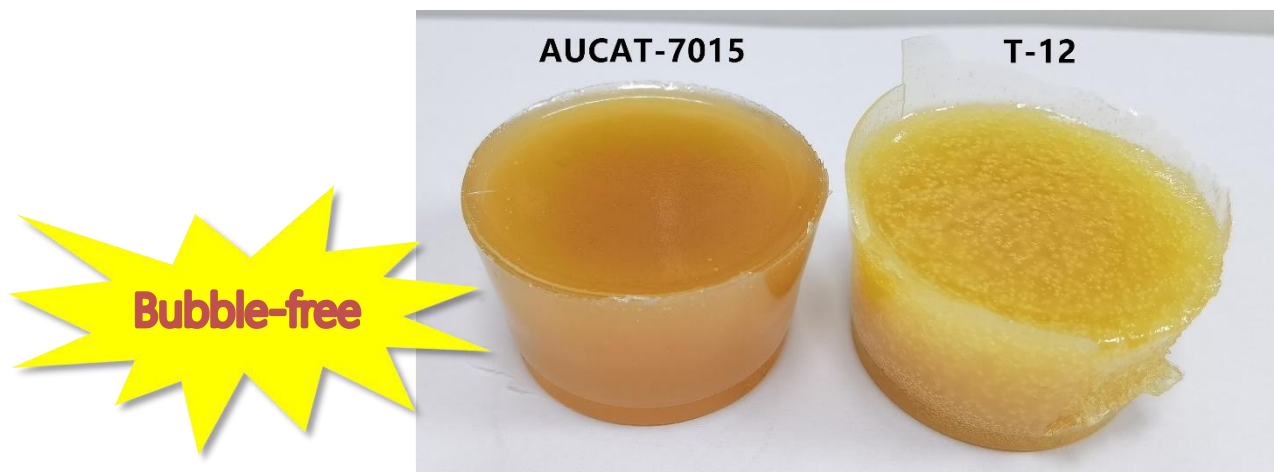
Experimental system: Polyester
type UV resin.
Catalyst content: 1%





AUCAT Series: Insensitive to moisture

Comparison of the sensitivity of AUCAT-7015 and T12 to trace amounts of water during the catalytic reaction of PU system



Formula: PAPI+Castor Oil

Dosage of catalyst: 0.1%

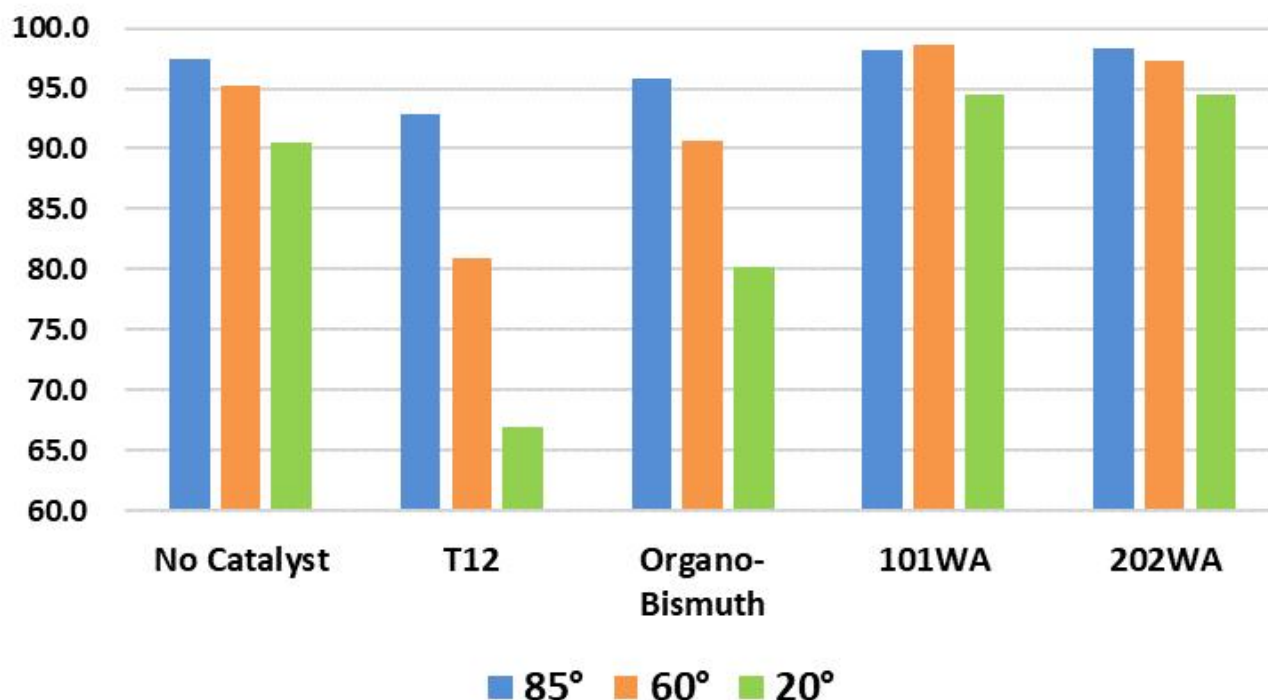
Catalytic Feature of AUCAT-7015:

- ❑ Not catalyzing the reaction between trace amounts of water and isocyanates, the rubber block is dense and bubble free;
- ❑ High catalytic activity, fast gelation, and improved production efficiency;
- ❑ Environmentally friendly, free of toxic heavy metals such as mercury, lead, and tin.



AUCAT Series: Applying in Waterborne Coatings

Effect of different catalysts on film gloss of waterborne varnish



Without
Loss of Gloss

According to above chart, AUCAT-101WA and 202WA have no effect on film gloss.

Experimental system: 2K
hydroxyacrylic varnish
Catalyst addition: 0.1%
Wet film thickness: 50 μ m
Solid content: 45%



AUCAT Series: Representative Products

Type	Trade Name	Characteristics	Recommended Application
Functional Catalyst	AUCAT-101	The function of 101 is similar to organo-bismuth and 202 is similar to organo-zinc, which can be used in combination with different ratio to meet various process requirements.	General use, such as elastomers, coatings, PU resin, PUD, etc.
	AUCAT-202		
	AUCAT-1001E	Insensitive to moisture, non-bubbles, fast demolding.	General use in PU CASE, especially for the systems using aromatic amine as chain extender, such as skateboard wheels.
	AUCAT-T62	Special for post-cure catalyst, no effect on potlife.	CASE, floor coatings
	AUCAT-1301	Thermal activity, similar catalytic activity to organo-tin.	Substitute for butyltin, applying in footwear adhesive, aliphatic PU resin.
	AUCAT-7015	Insensitive to moisture, targeting catalytic reactions between hydroxyl groups and -NCO groups, resulting in excellent molding mechanical properties.	Recommended for MDI system, universal for polyester and polyether, high activity in PAPI+castor oil system, environmentally friendly alternative to T-12.
Thermo-sensitive Catalyst	AUCAT-RM series	Dual characteristics of anti-hydrolysis and thermal sensitivity, high activity, long flow period and fast molding	Used for battery packs glue, extruded composite materials, artificial grass adhesive, carpet adhesive, solvent-free PU leather, high hardness large castings
Waterborne catalyst	AUCAT-101WA	Applying in waterborne system materials with long-term storage, and without deactivation, without loss of film gloss.	Waterborne 2K hydroxypropyl and PU coatings, such as water-based wood paint, water-based automotive repair paint, water-based baking paint, etc
	AUCAT-202WA		
	AUCAT-RM301WA		
Esterification Catalyst	AUCAT-ES series	Anti-hydrolysis, maintaining long-term catalytic performance; High activity; Eco-friendly, free of harmful heavy metal elements such as tin/antimony	Esterification condensation reaction, such as synthesizing polyester polyols, ester plasticizers, etc



**Thermo-
sensitivity**

Thermosensitive Delayed Catalysts

According to the different application requirements of MDI high reactive system, YOYRUN has developed RM series thermosensitive delayed catalysts with **differentiated thermosensitive temperatures**.

Trade Name	Thermosensitive Temperature	Catalytic Properties
AUCAT-RM301	60-70°C	Insensitive to moisture, to provide excellent mechanical properties to PU
AUCAT-RM401A	80-90°C	
CUCAT-RM50A	50-60°C	
CUCAT-RM70/RM70NA	60-70°C	Fast post-cure
CUCAT-RM90/RM90NA	80-90°C	
CUCAT-RM9100	100-110°C	
CUCAT-RM200/RM201	Thermally activated catalysts	



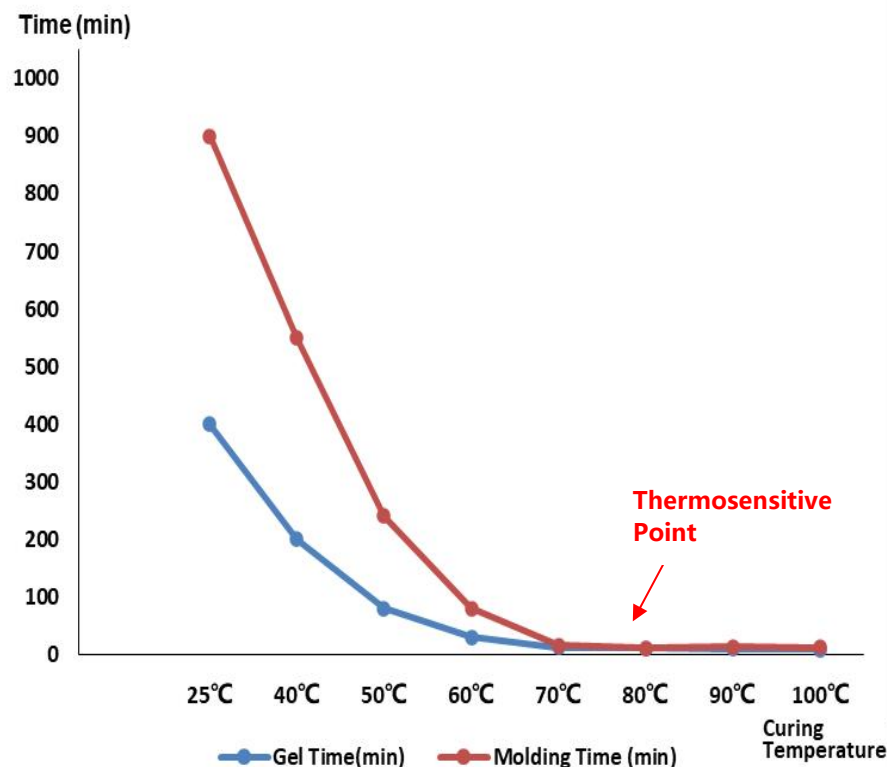


**Thermo-
sensitivity**

AUCAT-RM301

- Long potlife, weak-catalytic activity in room temperature.
- Definite thermosensitive temperature, the catalytic activity increases geometrically at thermosensitive point, and the material is molded rapidly.
- The catalytic activity is more than 5 times of other commercially catalysts in market.
- Eco-friendly without toxic substances.

Catalytic curves at different temperatures of RM301



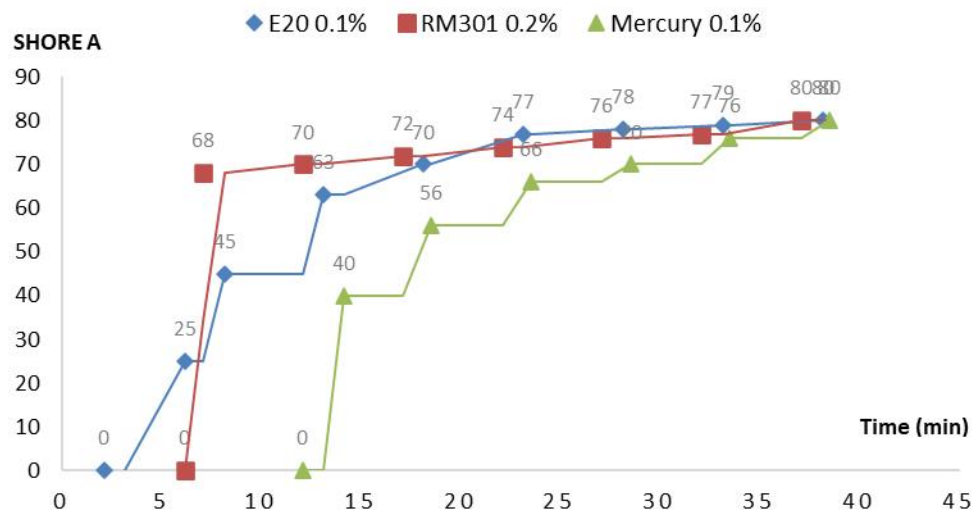
The thermosensitive point of RM301 is stable, the catalytic activity will be increased geometrically starting at 60-70°C. According to comparative experiments, setting the molding temperature at 70-80°C, that can provide the best physical properties to PU materials.



The right figure is hardness-time curve, shows the comparison of AUCAT-RM301, Organo-mercury and Organo-bismuth in the MDI+diol curing system (mixture at room temperature, curing at 80 °C):

- RM301 provides longer potlife than Organo-bismuth, and the fastest hardness increase compare to mercury and bismuth.
- RM301 is insensitive to moisture without bubbles in PU block, that is similar to mercury.

The comparison of Shore Hardness Changes



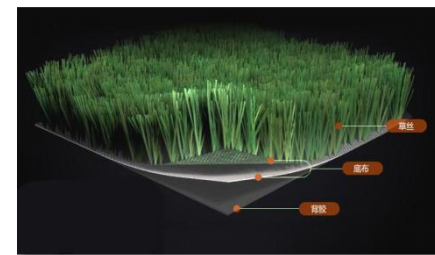
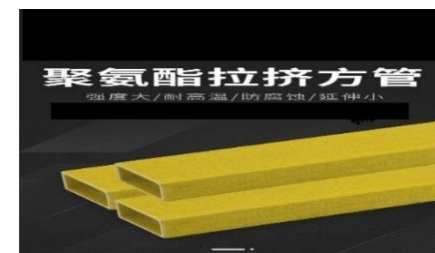


Thermo-
sensitivity

Thermosensitive Delayed Catalysts

Representative Application

- Non-solvent PU leather materials
- large-scale PU parts, such as wind power generation facilities
- Electronic protection foam
- pultrusion and extrusion PU parts
- Adhesive for artificial grass
-



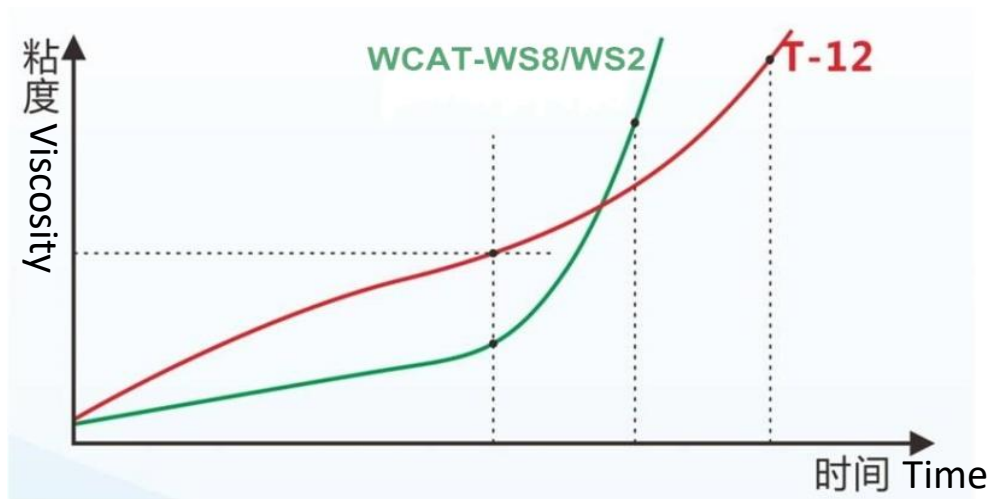


WCAT Series: Catalytic Properties

WCAT series catalysts are recommended for moisture curing PU systems, the advantages comparison with DBTL are as following:

The viscosity stability of non-solvent PU sealant

Catalyst	Content %	24h	7day
		Viscosity mPa.s 25°C	
T-12	0.05%	49100	50260
WS8	0.05%	29250	29450



- The viscosity of sealant material using WS8 is much lower than which using T-12.
- WCAT series catalyst can provide long potlife and short curing time.
- Due to the low viscosity and long potlife, the surface defects of pinholes and bubbles would be decreased significantly.
- **WCAT series catalysts performs high activity at low temperature conditions (< 5 °C),** no worries about outdoor construction in winter.



WCAT Series: Catalysts for moisture curing PU

Trade Name	Recommended Application	Characteristics
WCAT-WS8	Sealants, waterproof coatings, PUR, coatings.	General use, eco-friendly tin catalyst, moderate catalytic activity.
WCAT-WS17	Waterproof coatings, basketball courts.	General use, moderate catalytic activity, decreasing surface pinholes and bubbles.
WCAT-WS13A	Waterproof coatings, basketball courts, coatings.	General use, high catalytic activity, especially suitable for outdoor construction in winter.
WCAT-WP01	Aliphatic PU sealants, coatings.	High catalytic activity, suitable for aliphatic isocyanates PU
WCAT-WH03	For high eco-friendly requirements application. sealants, PUR., coatings.	Tin-free , keep catalytic activity in low temperature.
TCAT-WS11	Zero TVOC, Mild catalytic reaction, reduce pinhole and bulging in summer construction.	Eco-friendly catalyst of zero TVOC, recommend for Silicon-PU and adhesive of high eco-friendly standard.
WCAT-WS11A	Zero TVOC, fast curing at low temperature, suitable for construction in winter.	





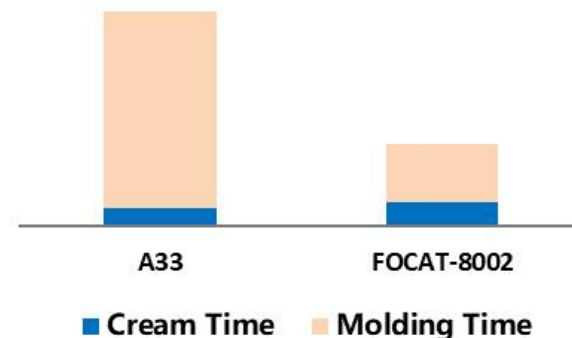
FOCAT Series: Catalytic Properties

PU foam catalysts for water-blown and rigid foam

FOCAT-8002

- Catalytic Properties: Long cream time and short molding time comparing with A33.
- Applications: Sole, insole, imitation wood, rock wool board, etc.

The Comparison of CT and MT



FOCAT-8003M

- Catalytic Properties: Gel catalyst, to keep long cream time combination with tertiary amine catalyst, to shorten molding time, and to provide smooth surface for skin-foam.
- Applications: skin-foam steering wheel, PU foam tire, etc.



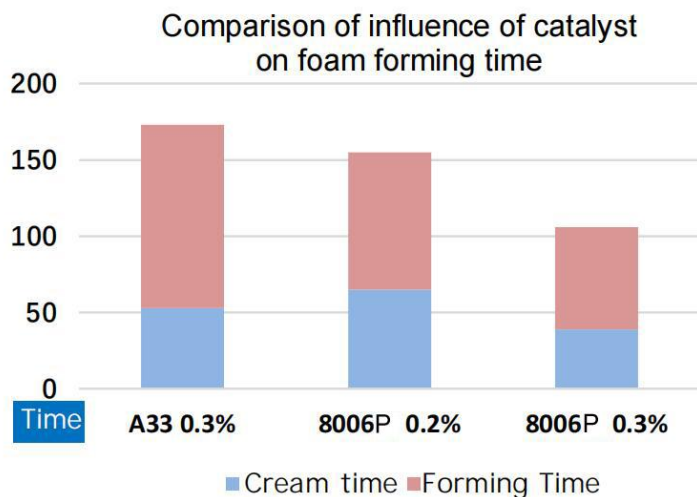


FOCAT Series: Catalytic Properties

PU catalysts for water-blown foam and flexible foam

FOCAT-8006P

- Catalytic Properties: Long cream time and short molding time, increase soft feeling and resiliency.
- 8006P can be used alone to replace traditional combination of tin and tertiary amine.
- Applications: Long block sponge, clothing foam, automotive foam, etc.



MDI+PPG all-water foaming system



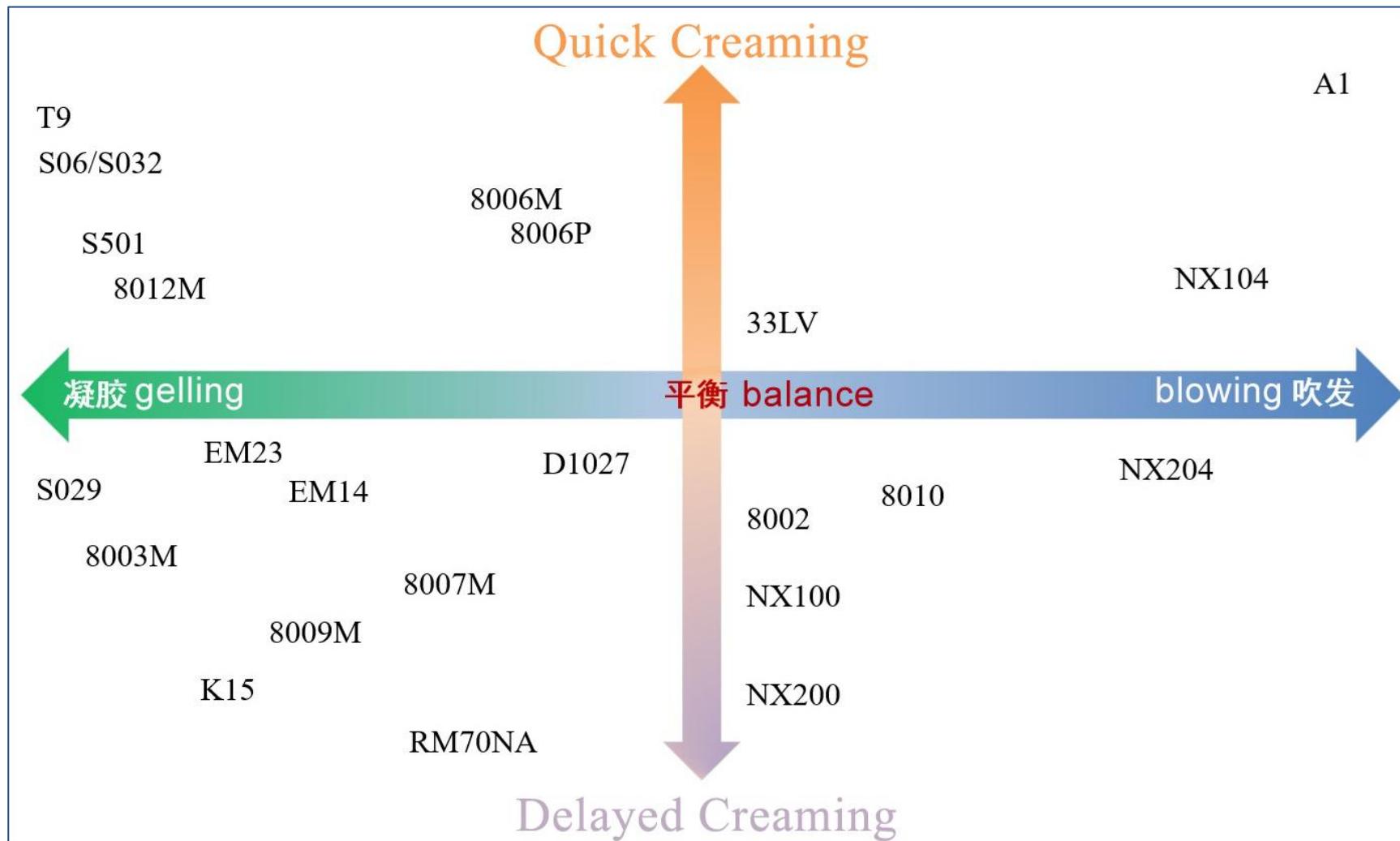


FOCAT Series: Catalysts for PU Foam

Product	Model	Characteristic	Application
Gelling catalyst	FOCAT-8003M	Gel type eco-friendly tin free delay catalyst. It can significantly extend the milky white period when used in combination with amine catalysis, and the post curing is faster.	MDI polyether foaming system. Integral skin foam products such as steering wheel and foam tire.
	TCAT-S501	Substitutes for T-12. Anti-hydrolysis and eco-friendly tin catalyst, with strong gel catalytic activity, and has typical catalytic characteristics of tin.	General purpose, with less amine catalyst, used for high resilience foam, with lower compression set and better permeability
	TCAT-S06	Highly active organotin catalyst with high hydrolysis resistance.	
	RM Series of Thermosensitive Catalysts	Strong gelling catalyst, promote post curing, fast demoulding. It is generally used as an auxiliary catalyst. It is recommended to use it with balanced main catalyst NX100/ NX200 or other balanced catalysts. If the foaming ratio is not enough, a small amount of blowing catalyst NX104 or NX204 is recommended.	General purpose type, extending milky white time and accelerating post curing.
Blowing-gelling balance catalyst	FOCAT-8002	Delayed foaming catalyst. Compared with other delayed amine catalysts, the milky white period is significantly prolonged and the post-curing is faster, effectively improving the production efficiency; Prevent the collapse of foam, and ensure the dimensional stability of products.	Used for foam sponges, especially for high-density foam products which require fast post-curing and rapid demoulding, such as shoe soles.
	FOCAT-8006P	Delayed foaming catalyst, Delay the milky white period, but promote fast post curing. It can be used alone or in combination with catalysts FOCAT-NX100 and NX104.	Used for block sponge, suitable for continuous production method.
	FOCAT-8006M		Used for integral skin foam, especially for all-water foaming materials. Suitable for formula system with high powder content.
Delayed blowing-gelling balance catalysts	FOCAT-NX100	Balanced catalyst for delayed foaming.	General purpose
	FOCAT-NX200	Balanced catalyst for delayed foaming with super long milky white period.	
Delayed blowing catalyst	FOCAT-NX104	For formulas with insufficient foaming rate, NX104 starts blowing about 50-60% faster than NX204; It is generally be used as an auxiliary catalyst. It is recommended to be used together with the balanced main catalyst NX100/ NX200 or other balanced catalyst.	General purpose
	FOCAT-NX204		



FOCAT Series: Comparison of Catalysis





Special Functional Catalysts





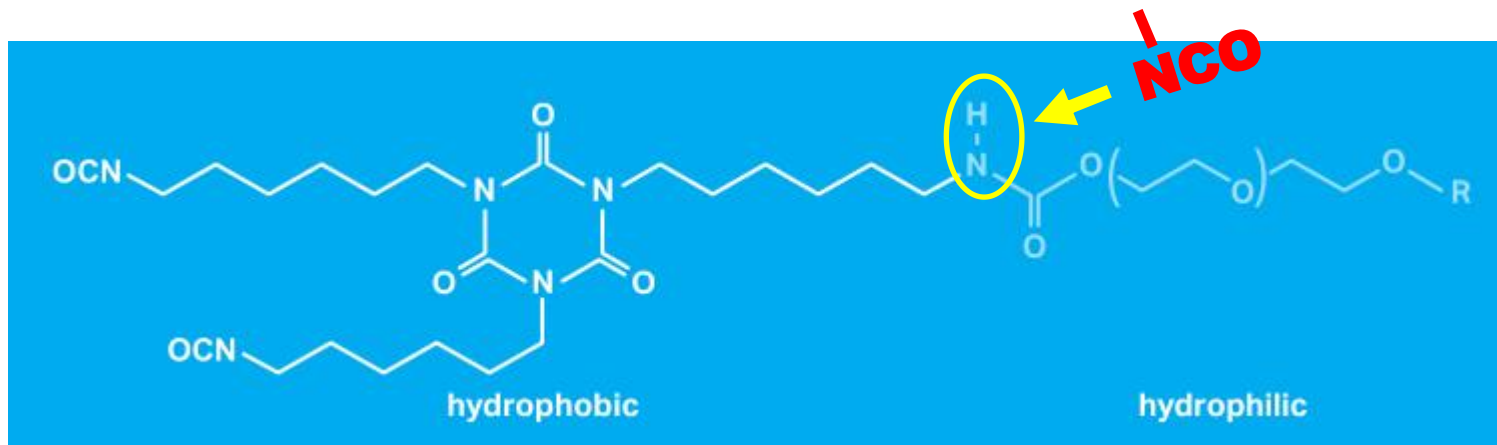
CUCAT-U1 for Synthesizing Waterborne Trimer

Targeting

U1 Catalyzes Targetedly to Generate Allophanate and Biuret

Targeted to catalyze branching reaction of specific active hydrogen and isocyanate, increasing the functionality and reducing the viscosity of trimer, which can significantly improve the water resistance, chemical resistance, scratch resistance, gloss, fullness and other characteristics of dry film.

Other applications need to be further developed.....





Targeting

CUCAT-G5A for Synthesizing TDI Hardner

G5A Catalyzes Targetedly to self-polymerization of Isocyanates

G5A is trimerization catalyst, which can significantly reduce the free TDI content used in synthesizing TDI hardner and keeps colorless transparent appearance and storage stability.





Zero-TVOC

CUCAT-V Series for Sport Track

**Extremely low TVOC, to meet the requirements
of national standard (GB36246-2018)**

CUCAT-V18 CUCAT-V17



- ❑ Participate in Reaction
- ❑ High Boiling Point
- ❑ Non-deactivation

Triple-Guarantee to Ensure Zero-TVOC

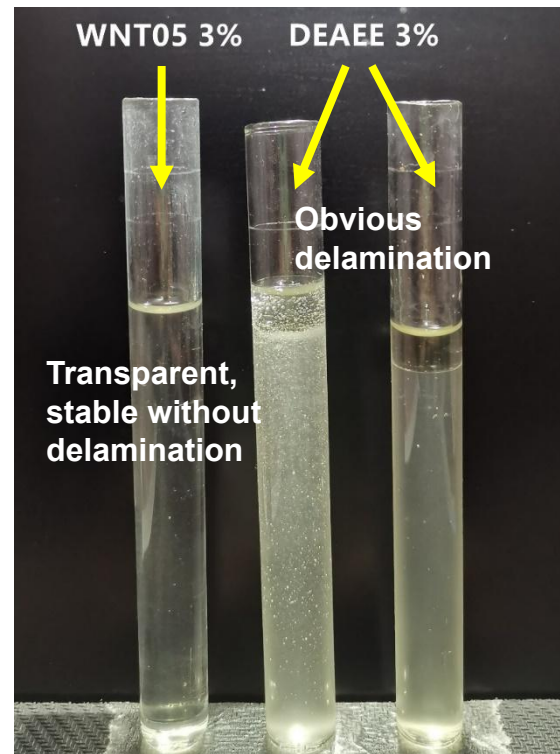


CUCAT-WN Series for Grouting Reinforcement

**High
Compatibility**

**WN series innovative catalysts for
Polyurethane-Sodium Silicate
Grouting Reinforcement Materials.**

- ❑ Low odor
- ❑ Stable without deactivation
- ❑ High compatibility with sodium silicate
- ❑ High molding strength



The compatibility comparison of WNT05A and DMAEE in sodium silicate.



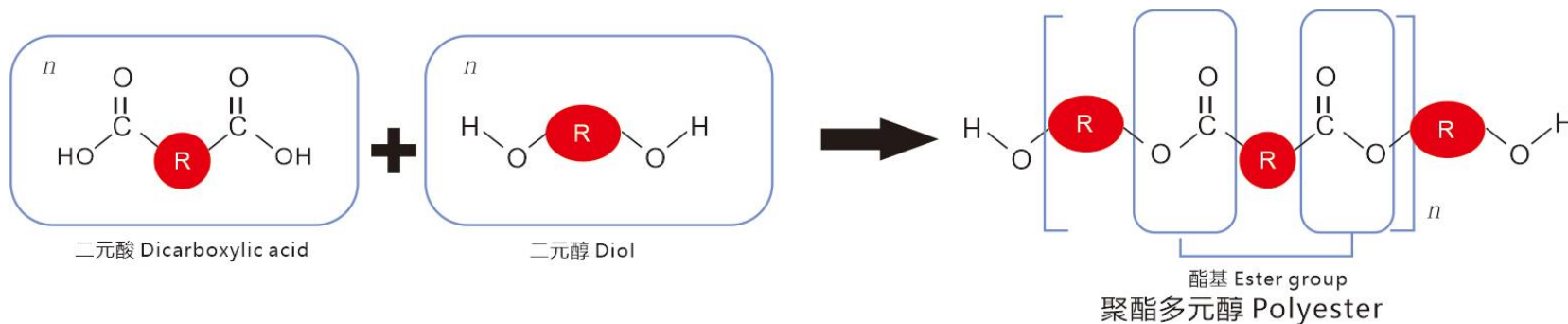


High Stability

AUCAT-ES for Esterification

Excellent hydrolysis resistance at high-temperature

- Anti-hydrolysis, maintaining long-term catalytic performance, and no need for supplementation during the reaction process.
- Efficient catalytic properties with minimal addition.
- Highly compatible, does not affect the transparency of the finished product.
- Light color, does not affect the finished product's chromaticity
- Environmentally friendly, it does not contain harmful heavy metal elements such as tin and antimony.





TCAT series: Catalysts for MS Sealant

The TCAT Series chelated tin catalysts with much higher catalytic activity than T-12, recommending to apply in silane modified polyurethane adhesive.

- ❑ To promote deep curing.
- ❑ High activity with small dosage, low cost in materials.
- ❑ Good storage stability.

TCAT-NS01 is alternative to NITTO U-220H.

TCAT-NS02 is alternative to NITTO U-303.

TCAT-S130 is alternative to NITTO U-130.





**Eco-friendly
Silicon-PU**

SICAT series for Silicon Ruber

SICAT series eco-friendly catalysts specialized for Silicon Ruber

Alternate to Organic Tin Catalysts

- Used for MS Sealant, RTV Silicon Rubber, Substitutes for Organic Tin.
- Efficient catalytic properties with minimal addition.
- Good compatibility and easy mixing, without affecting the transparency of the finished product.

SICAT-05 is alternative to Tyzor® 726

SICAT-06 is further improved catalytic stability.





**Anti-
Catalyst**

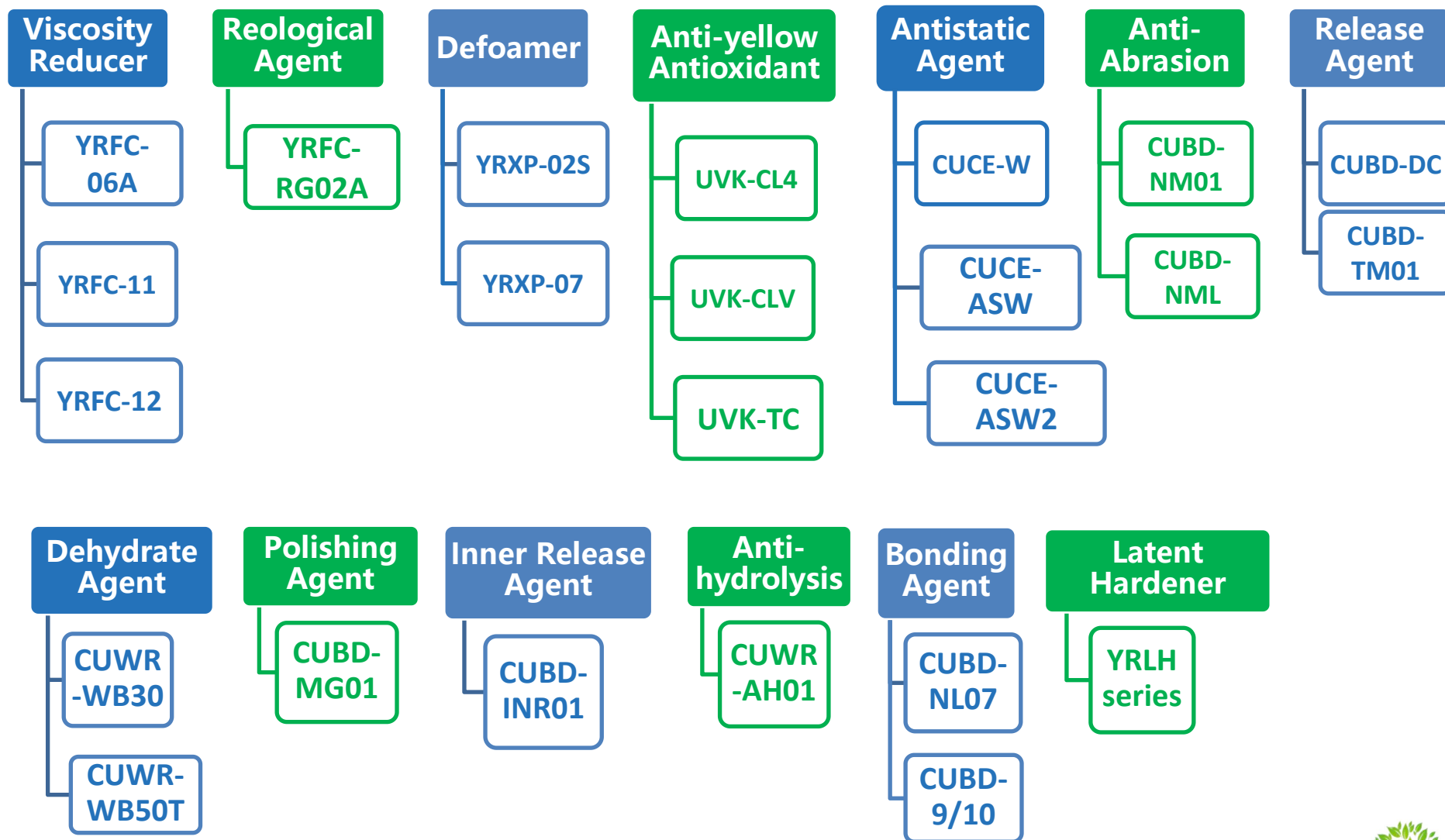
NCAT Series Anticatalyst Polymerization inhibitor

Name	Model	Catalytic Feature	Application
Anti-catalyst	NCAT-YC02	Effectively delaying the reaction rate of polyurethane and providing longer pot life of low viscosity; Effectively extending the storage time of single component MDI adhesive (prepolymer).	General purposed
	NCAT-YC03		Recommend for castor oil formula system.





Functional PU Additives

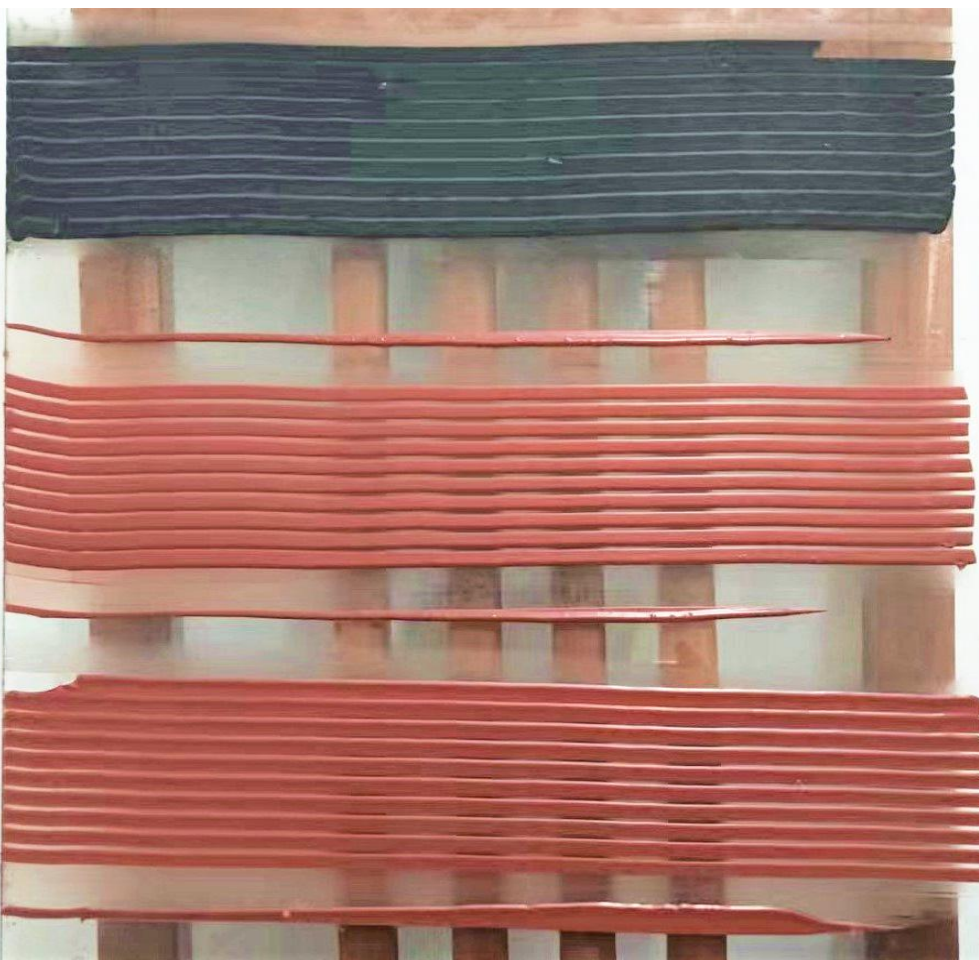
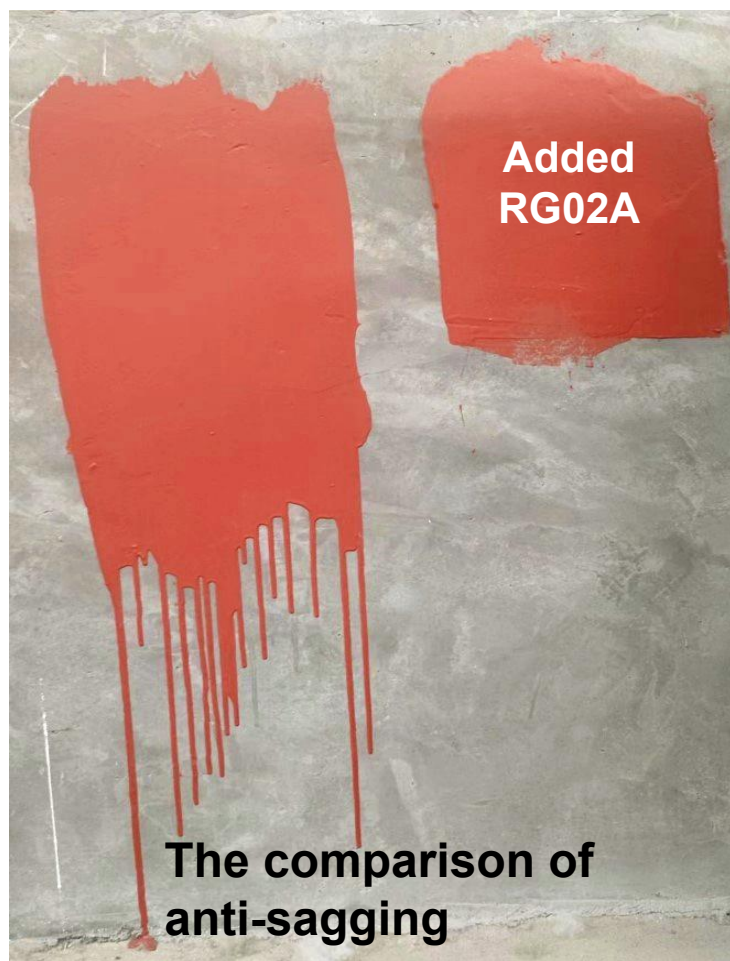




Functional Agent: Rheological

Anti-Sagging

YRFC-RG02A is a high-efficiency liquid rheological agent for anti-sagging coatings.



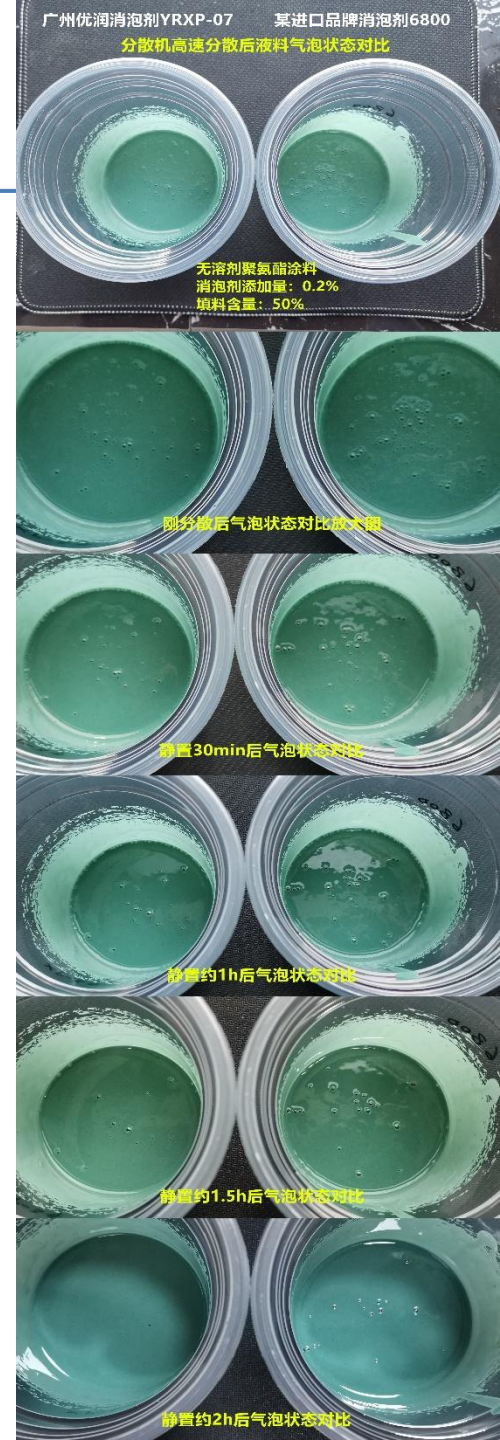


Functional Agent: Defoamer

High Efficiency
Defoaming

Defoamer YRXP-07

- **Excellent retard foaming effect:** To possess excellent ability to retard foaming caused by dynamic factors such as mixing and impact.
- **Excellent foam-breaking effect:** Strong foam-breaking effect for the generated foam, to eliminate microbubbles and large-bubbles quickly in various viscosity systems.
- **Less dosage and lower cost.**





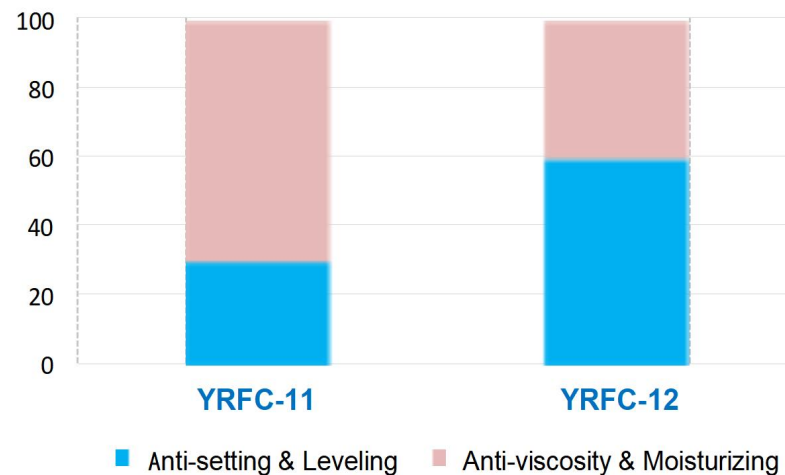
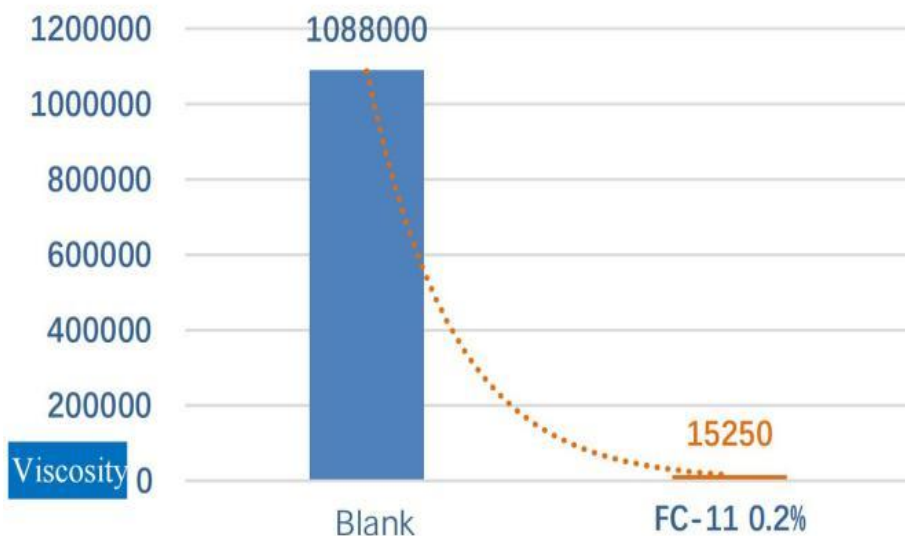
Functional Agent: Dispersant

YRFC series are high effective dispersant designed for non-solvent system with high fillers content.

The applying properties are following:

- The viscosity reduction effect is obviously. The system viscosity can be reduced about 70% by small dosage.
- Anti-sediment & Anti-agglomeration.
- Excellent flowability, to reduce the surface defects of bubbles, bulging and cratering.

Viscosity reduction effect of YRFC-11 (Filler content:60%)



Functions Comparison of YRFC Series Additives



Functional Agent: Special Adhesive

Bonding for Nylon substrate and CPU: CUBD-NL07

Bonding for Metal substrate and CPU: CUBD-1/2

- ❑ To provide structural firm bonding
- ❑ Long potlife, convenient process
- ❑ Excellent resistance of water and saline water
- ❑ Competitive price

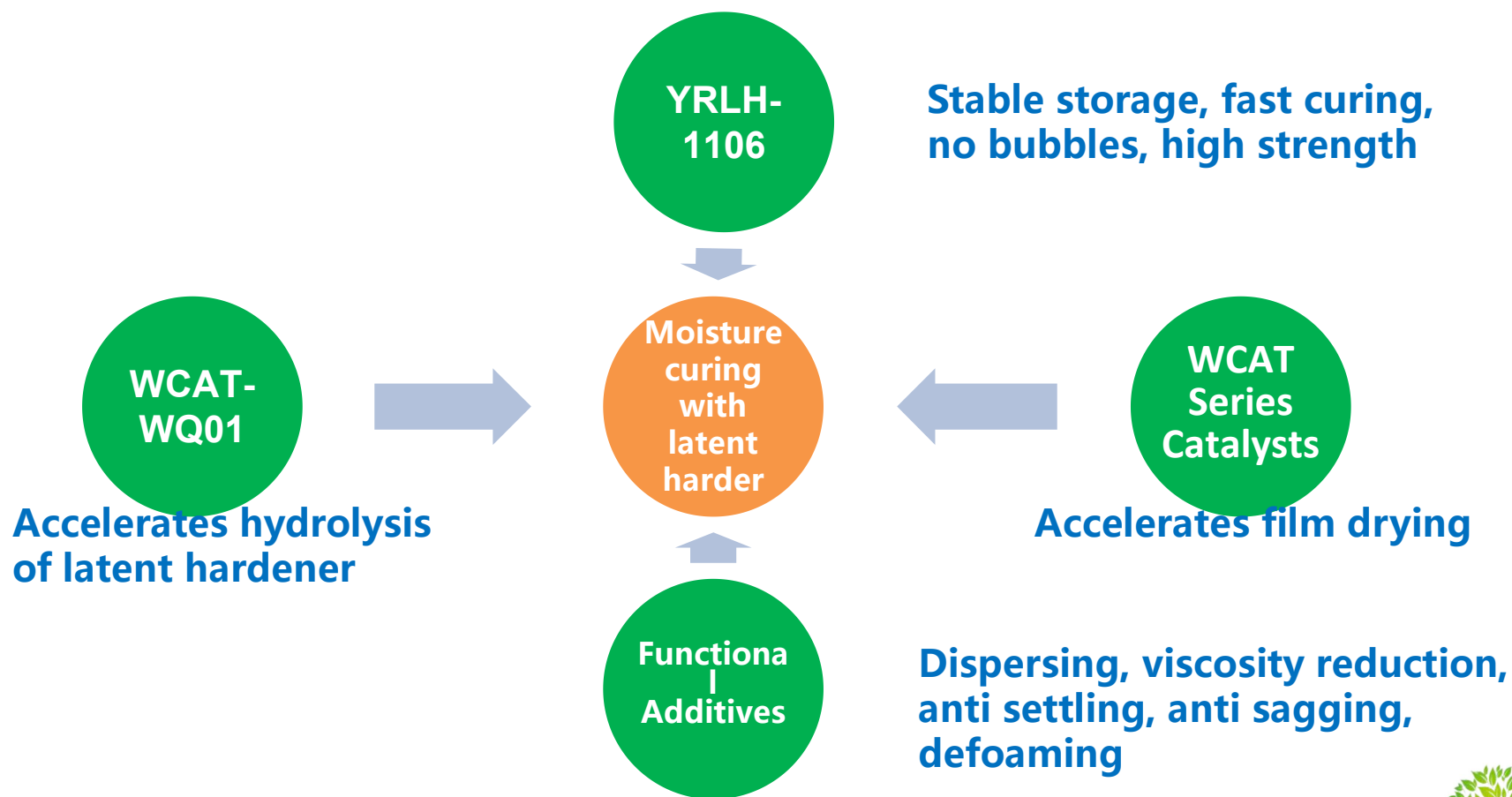




Functional Agent: Latent Hardener

Latent Hardener: **YRLH-1106 (Aldimine)**

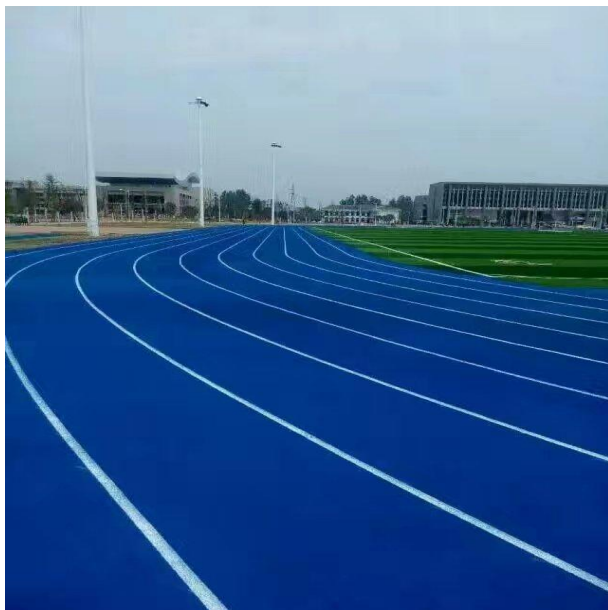
Accelerator: **WCAT-WQ01 (Liquid at room temperature)**





Main Application

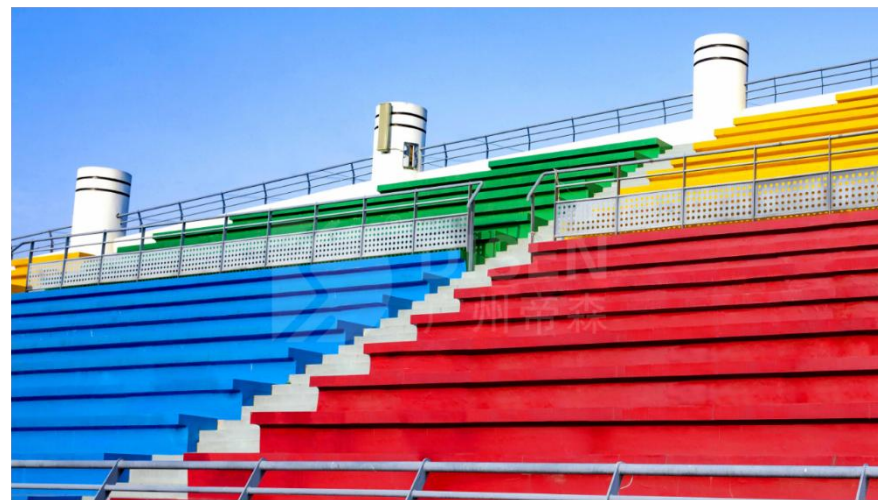
- Sports runway and basketball courts
- Waterproof coatings
- Floor coatings





Main Application

- **Spray Urethane**
- **Spray polyurethane-urea**

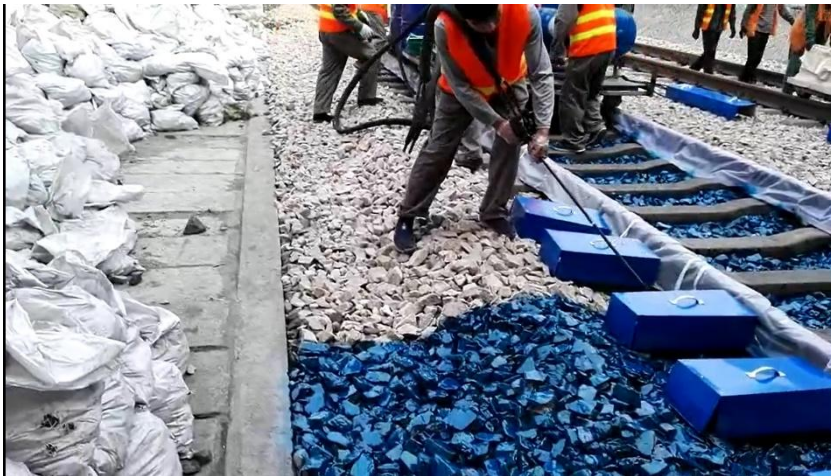




Main Application



- high-rate damping PU
- Railway ballast PU





Main Application



- Grouting and Leaking Stoppage for coal mines
- Tunnel Reinforcement
- Dam leakage-prevention





Main Application



PU Elastomers:

- Wheels, Castors & Rollers
- Printing Scraper
- Rotating Model
- Hydrocyclones
- Dumbbell glue covered PU
- Mine Screen
-





Main Application

➤ TPU



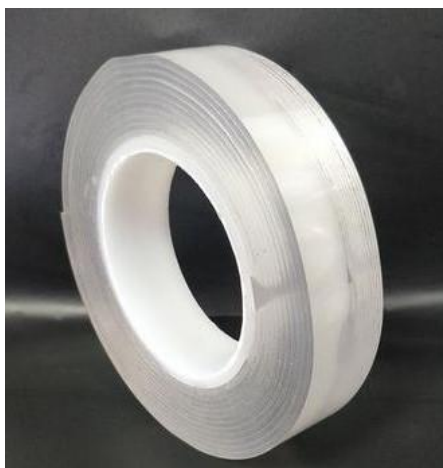


Main Application



➤ Soft PU

- ✓ Cold pillow
- ✓ Mattress
- ✓ Flexible tape
- ✓ Mouse pad
- ✓

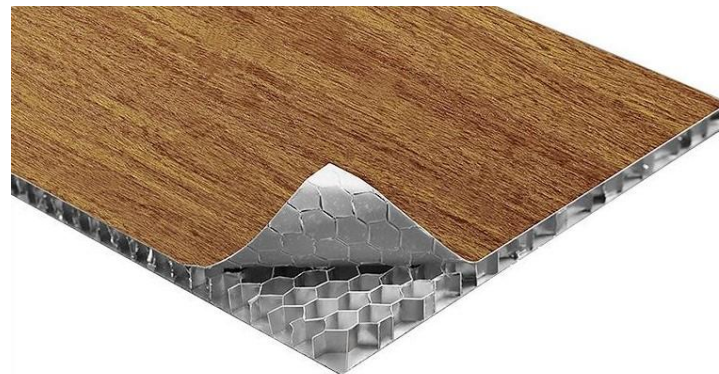
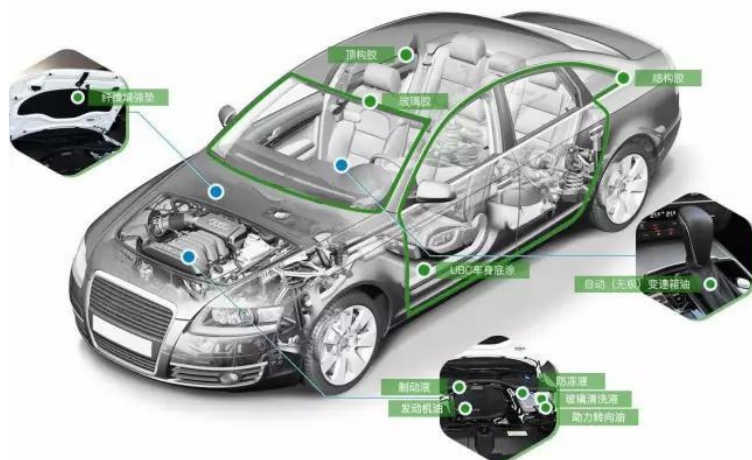




Main Application

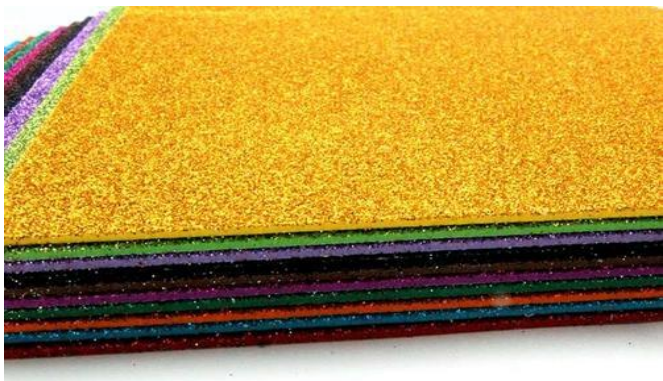
➤ Adhesive & Sealant

- ✓ Structural adhesive
- ✓ Aluminum honeycomb door panel adhesive
- ✓ Electric vehicle traction-batter PACK
- ✓ Vehicle adhesive



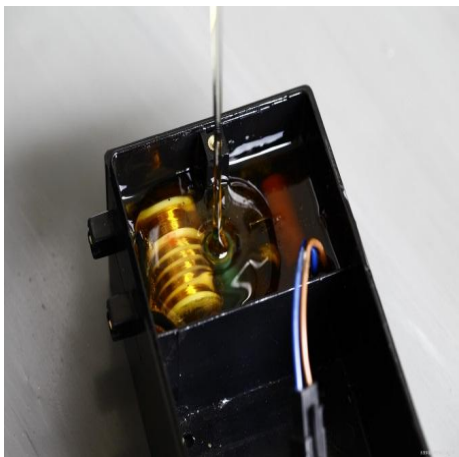


Main Application



➤ Adhesive & Sealant

- ✓ Electronic encapsulating
- ✓ Insulating coatings
- ✓ Lamp strip covered PU
- ✓ Carpet back glue
- ✓ PUR





Main Application



➤ Adhesive & Sealant

- ✓ MS sealant
- ✓ PU sealant
- ✓ Building sealant
- ✓ Automobile sealant
- ✓



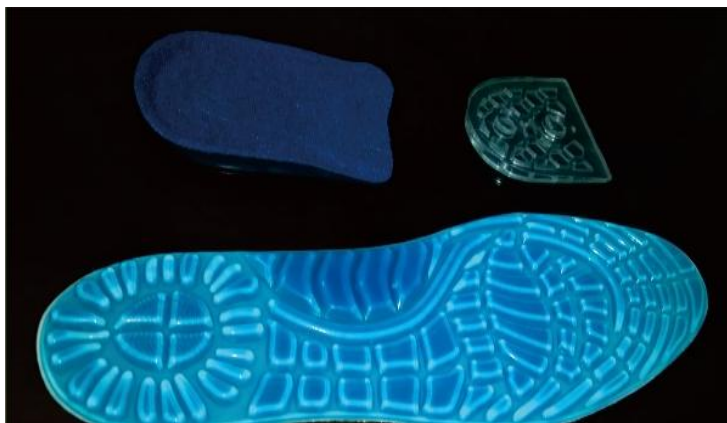


Main Application



➤ Shoe Material

- ✓ Shoe Upper
- ✓ Shoe-pad
- ✓ Soles
- ✓ Shoe glue





Main Application



➤ PU Leather

- ✓ Non-solvent PU materials
- ✓ Solvent base PU leather resins
- ✓ Waterborne leather coatings





Main Application



Synthetic Polyurethane Resin

- ✓ Waterborne Polyurethane PUD
- ✓ Solvent base PU resins
- ✓ Isocyanate Hardner





Main Application

Coatings:

- 2K polyester PU coatings
- 2K hydroxyacrylic coatings
- Alkyd paint
- Moisture curing PU coatings

Such as wood coatings, automotive repair coatings, anticorrosive paint, scribing paint, tank iron paint, building floor coatings, etc.





3

Services & Cooperations



Technology Application Services

Relying on the professional advantages and rich experiences on the polyurethane industry, we provide customers with high-quality and differentiated technical solutions through innovative catalysts and functional additives.





Business Partners





替代有机汞铅锡

聚氨酯环保催化剂

Substitutes for Organo-Mercury/Lead/Tin

Eco-Friendly Polyurethane Catalysts

Thanks!



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