壹科麦
YIKEMAI

— SPECIAL POLYOLS
— BIO-BASED POLYOLS
—WATER-BASED EMULSION

YIKEMAI SPECIAL MATERIALs TECHNOLOGY 2025

ABOUT US

壹科麦
YIKEMAI

Wechat Official Account

Wechat Channel

Douyin Official Account

Guangzhou Yikemai Special Materials Science and Technology Co., Ltd. specializes in the research and development and application of BIO-BASED POLYOLS and SPECIAL POLYOLS, providing customers with more suitable solutions for special polyols.

With R&D and technical staff from Fudan University, Zhejiang University, Sichuan University and Imperial College London, we are constantly exploring and developing new technologies of bio-based materials. We have successfully applied for our own patent technology and developed over 10 types of bio-based polyols and water-based emulsions to meet the needs of different application scenarios.

Our products can be widely applied in the battery adhesives and coatings of new energy vehicles, including encapsulation adhesives, structural adhesives, thermal conductive adhesives, insulating adhesives, flame-retardant adhesives, shoe adhesives, TPU, PUR, polyurethane prepolymers, polyurethane resin synthesis, floor coatings, synthetic leather & microfiber & genuine leather finishing agents and many other fields.

Our products have excellent overall performance, featuring outstanding processability, hydrophobicity, UV resistance, mechanical properties, tear resistance, good adhesion, weather resistance and heat resistance. They all have strong plasticity.

Our company also pays close attention to the environmental friendliness and sustainable development of our products. Under the premise of ensuring that performance is not affected, less plasticizer is added to our products. We always maintain an innovative spirit and provide our customers with environmentally friendly and sustainable solutions!







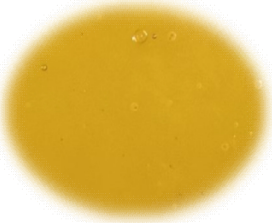
APPLICATIONS

壹科麦
YIKEMAI

Floor Coating

Anti-corrosion Coating

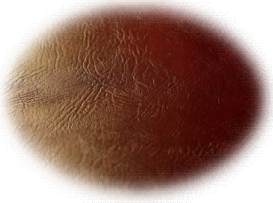
Insulating Adhesive/
Flame-retardant Adhesive



Synthesis of
Polyurethane Resin

New Energy Vehicle Battery
Adhesive/Structural Adhesive

TPU



Genuine Leather/Synthetic
Leather/Microfiber
Finishing Agent

Shoe Adhesive

PUR

APPLICATIONS

壹科麦
YIKEMAI

Architectural material Industry

—— Water-based polyurethane mortar floor, solvent-free polyurethane floor

Adhesive Industry

—— New energy vehicle battery adhesives/structural adhesives, potting compounds

Water-based polyurethane mortar floor application products:

- HPU-7800 (Water-based emulsion)
- JZ-2540 BiO (Bio-based polyols)

- Four-component for use with curing agent, aggregate and color paste
- The operable time is over 30 minutes (at 25℃)
- The initial flow degree of the self-leveling performance is over 130mm
- Provide excellent weather resistance, wear resistance, impact resistance, high and low temperature resistance, crack resistance, chemical corrosion resistance and low VOC environmental protection performance for water-based polyurethane mortar floors
- Suitable for extreme working environments such as food processing, slaughtering, heavy-duty anti-corrosion, high temperature and high humidity

New energy vehicle battery adhesives/ structural adhesives, potting compounds application products:

- JZ-1510 BiO/JZ-4510 BiO (Bio-based polyols)
- JZ-1515 BiO/ JZ-4515 BiO (Bio-based polyols)
- JZ-1610 BiO/JZ-4610 BiO (Bio-based polyols)
- JZ-1615 BiO/JZ-4615 BiO (Bio-based polyols)

- High hardness, high strength, high toughness, and resistance to high temperature and high humidity environments
- Low tide sensitivity and excellent chemical corrosion resistance
- Good adhesion and bonding performance to substrates such as PET, PVC, PC, aluminum and copper

Solvent-free polyurethane floor application products:

- JZ-1405 BiO (Bio-based polyols)
- JZ-1515 BiO/JZ-4515 BiO (Bio-based polyols)
- JZ-1615 BiO/JZ-4615 BiO (Bio-based polyols)

- Two-component self-leveling
- Excellent abrasion resistance and chemical corrosion resistance
- Elastic, enhances comfort and reduces noise transmission
- suitable for places such as schools, hospitals, shopping malls and exhibition halls

Potting compound application products:

- JZ-9312 BiO (Halogen-free flame-retardant bio-based polyols)
- JZ-1405 BiO (Bio-based polyols)
- JZ-1506 BiO (Bio-based polyols)
- JZ-1606 BiO (Bio-based polyols)
- JZ-1515 BiO/JZ-4515 BiO (Bio-based polyols)

- Two-component, high bio-based content
- Applicable to polyurethane potting compound systems
- Provide excellent elasticity, adhesion, shock absorption performance, resistance to high temperature and high humidity environments, and adjustable hardness for potting compounds
- Flame-retardant bio-based polyols can provide excellent flame-retardant and fireproof performance
- Environmental protection performance

APPLICATIONS

壹科麦
YIKEMAI

Polyurethane Industry

— Flame-retardant polyurethane

Coatings & Resin Industry

— Industrial coatings, automotive paints

Flame-retardant polyurethane application products:

- JZ-9312 BiO (Halogen-free flame-retardant bio-based polyols)

- Halogen-free
- Provides polyurethane with excellent flame retardancy, fire resistance, resistance to high-temperature and high-humidity environments, initial adhesion, chemical corrosion resistance, flexibility and adhesion
- Environmental protection performance

Industrial coatings, automotive paints application products:

- JZ-9312 BiO (Halogen-free flame-retardant bio-based polyols)
- JZ-1405 BiO (Bio-based polyols)
- JZ-1406 BiO (Bio-based polyols)
- JZ-1515 BiO/JZ-4515 BiO (Bio-based polyols)
- JZ-1610 BiO/JZ-4610 BiO (Bio-based polyols)
- JZ-1615 BiO/JZ-4615 BiO (Bio-based polyols)

- High bio-based content
- Applicable to polyurethane coating systems and waterborne resin systems
- Provide excellent adhesion, wear resistance, weather resistance, flexibility, high-temperature resistance, chemical resistance and hydrolytic stability for coatings

PRODUCT FEATURES

壹科麦 YIKEMAI

Renewable raw materials

High bio-based content

Environmentally friendly and degradable

Strong adhesion

- Provides better strength and substrate wettability for formulation
- Easy construction

Excellent mechanical properties

- Improves flexibility and provides excellent initial adhesion
- Good operation convenience (low viscosity, no solvent)

Chemically stable

- Corrosion resistance, aging resistance.
- After high temperature, high humidity, aging, products still have excellent hydrolysis stability
- Resistant to acid, alkali, glycol and water

Good thermal/dielectric conductivity

- With flame retardant, insulation, sealing, fire resistance

Good hydrophobicity

TEST DATA

壹科麦
YIKEMAI

High BIO-BASED Content


BETA Beta Analytic
CARBON-14 TESTING

ISO/IEC 17025:2017-Accredited Testing Laboratory

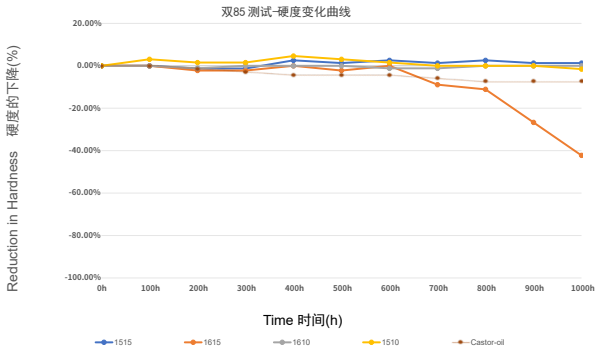
方法（AMS）TOC

结果

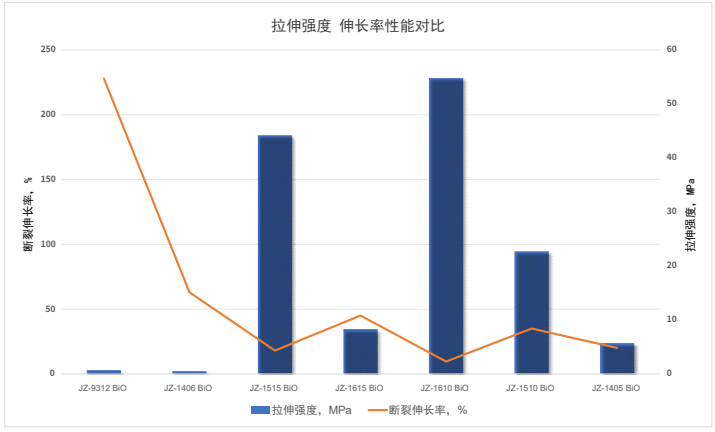
Beta-728173

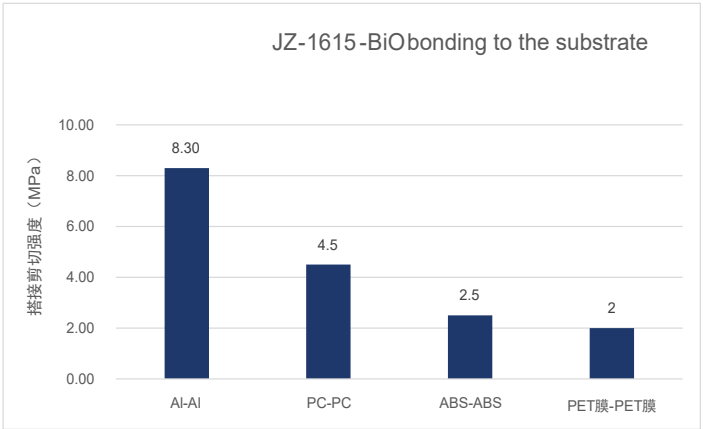
64.40 +/- 0.22 pMC

Good Hydrolytic Stability



Good Tensile Strength & Elongation





Excellent Hydrophobicity & Adhesion

*The test data is based on laboratory tests under specific conditions and is for reference only. The final performance indicators are based on the actual application tests.

PRODUCT OVERVIEW

壹科麦 YIKEMAI

Classification	Type	Features/Application Directions	Appearance	Bio-based content%	Func-tionality	Hydroxyl value mg KOH/g	Viscosity mPa·s, 25 °C
Flame-retardant series	JZ-9312 BiO	(Halogen-free) flame retardant/coating/ adhesive etc.	Yellow transparent liquid	○○	2.0	48~53	5500~7500
JZ-14 Series	JZ-1406 BiO	Polyurethane synthesis/ polyurethane coatings/adhesives / sealants etc.	Yellow transparent liquid	○○○○	2.0	46~51	4000~6000
	JZ-1407 BiO		Dark brown transparent liquid	○○○○	2.0	46~51	850~1450(50°C)
	JZ-1408 BiO		Yellow transparent liquid	○○○○	2.0	46~51	800~1400(50°C)
	JZ-1405 BiO	Polyurethane synthesis/coating/ floor etc.	Yellow transparent liquid	○○○	2.0	196~216	400~700
High Func-tionality Series	JZ-1610 BiO	Structural adhesive/ polyurethane coatings/adhesives / sealants etc.	Yellow transparent liquid	○○○○	3.5	370~410	6200~7200
	JZ-4610 BiO (1610低粘版)		Yellow transparent liquid	○○○○	3.5	370~410	4500~6500
	JZ-1510 BiO		Yellow transparent liquid	○○○○	3.3	193~238	4000~5500
	JZ-4510 BiO (1510低粘版)		Yellow transparent liquid	○○○○	3.3	210~280	2500~4000
	JZ-1615 BiO	Polyurethane coatings/adhesives / sealants/floor/ terrazzo etc.	Light yellow/Yellow transparent liquid	○○○○	3.5	162~179	4820~5520
	JZ-4615 BiO (1615低粘版)		Light yellow/Yellow transparent liquid	○○○○	3.5	162~179	4000~5000
	JZ-1515 BiO		Light yellow translucent liquid	○○○	3.0	299~331	2700~3100
	JZ-4515 BiO (1515低粘版)		Light yellow translucent liquid	○○○	3.0	299~331	1500~2500
	JZ-2540 BiO	Polyurethane coatings/floor	Yellow transparent liquid	○○○	3.0	152~168	7000~9000
	JZ-1516 BiO	Polyurethane coatings/adhesives / sealants/floor/ terrazzo etc.	Yellow paste solid	○○○	3.0	299~331	150~750(50°C)
	JZ-1517 BiO		White solid	○○○	3.5	304~336	150~750(50°C)
	JZ-1506 BiO	Polyurethane synthesis/ structural adhesive/pouring sealant etc.	Yellow translucent liquid	○○○○	2.6	224~248	2000~3000
	JZ-1606 BiO		Yellow transparent liquid	○○○○	3.5	204~226	4500~5800
Water-based emulsion series	HPU-7800	Floor	Milky liquid	/	/	2.75（Hydroxyl value content）	50~200
	HPU-7800 ED	Floor	Milky liquid	/	/	2.75（Hydroxyl value content）	50~200

Remark: “Bio-based content%”：○○○○ 90%~99%, ○○○ 60%~89%, ○○ 30%~59%, ○ 0%~29%

Flame-retardant Series

壹科麦
YIKEMAI

JZ-9312 BiO

Characteristics - Bio-based polyols

- Bio-based content：30~59%
- Yellow liquid bio-based polyol
- Flame-retardant and contains no halogen at all
- Excellent hydrophobicity, chemical stability, impact resistance, good flexibility and processability

Application

Polyurethane coating

Adhesives (such as adhesives for power batteries) and sealants, etc

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers excellent flame retardancy, aging resistance, high strength, low viscosity and easy application

Performance indicators

	Index	Test method
Appearance	Yellow transparent liquid	Visual inspection
Functionality	2.0	Theoretical value
Hydroxyl value (mg KOH/g)	48~53	DMAP catalytic method
Acid value	<1	GB-T 12008.5-2010
Viscosity @25℃ (mPa・s)	5500~7500	GB/T 2794-2013
Viscosity @50℃ (mPa・s)	50~650	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-9312 BiO	Test method
Hardness (D)	30	GB/T 2411-2008
Tensile strength （MPa）	0.7	GB/T 528-2009
Elongation at break （%）	230	GB/T 528-2009

JZ-14 Series

壹科麦
YIKEMAI

JZ-1406 BiO
JZ-1407 BiO
JZ-1408 BiO

Characteristics - Bio-based polyols

- Bio-based content：85~99%
- Liquid bio-based polyol
- Excellent hydrophobicity, chemical stability, flexibility, weather resistance, tear resistance and good processability
- Environmentally friendly, solvent-free and odorless

Application

Polyurethane synthesis

Polyurethane coating

Adhesives (such as adhesives for power batteries) and sealants, etc

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers advantages such as excellent aging resistance, high strength, low viscosity and easy application

Performance indicators

	JZ-1406 BiO	JZ-1407 BiO	JZ-1408 BiO	Test method
Appearance	Yellow transparent liquid	Dark brown transparent liquid	Yellow transparent liquid	Visual inspection
Functionality	2.0	2.0	2.0	Theoretical value
Hydroxyl value (mg KOH/g)	46~51	46~51	46~51	DMAP catalytic method
Acid value	<1	<1	<1	GB-T 12008.5-2010
Viscosity @25°C (mPa・s)	4000~6000	/	/	GB/T 2794-2013
Viscosity @50°C (mPa・s)	900~1500	850~1450	800~1400	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-1406 BiO	Test method
Hardness (D)	30	GB/T 2411-2008
Tensile strength （MPa）	0.7	GB/T 528-2009
Elongation at break （%）	65	GB/T 528-2009

JZ-14 Series

壹科麦
YIKEMAI

JZ-1405 BiO

Characteristics - Bio-based polyols

- Bio-based content：85~99%
- Environmentally friendly, solvent-free and odorless
- Excellent hydrophobicity, chemical stability, good processability, saponification stability, flexibility and wear resistance

Application


Polyurethane synthesis


Coating


Solvent-free polyurethane floor

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers advantages such as excellent aging resistance, high strength, low viscosity and easy application

Performance indicators

	JZ-1405 BiO	Test method
Appearance	Yellow transparent liquid	Visual inspection
Functionality	2.0	Theoretical value
Hydroxyl value (mg KOH/g)	196~216	DMAP catalytic method
Acid value	<1	GB-T 12008.5-2010
Viscosity @25℃ (mPa・s)	400~700	GB/T 2794-2013
Viscosity @50℃ (mPa・s)	350~950	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-1405 BiO	Test method
Hardness (D)	52	GB/T 2411-2008
Tensile strength （MPa）	5.7	GB/T 528-2009
Elongation at break（%）	20	GB/T 528-2009

High Functionality Series

壹科麦
YIKEMAI

Bio-Based Polyols

JZ-1610 BiO

JZ-4610 BiO
(JZ-1610 BiO low viscosity version)

JZ-1510 BiO

JZ-4510 BiO
(JZ-1510 BiO low viscosity version)

JZ-1615 BiO

JZ-4615 BiO
(JZ-1615 BiO low viscosity version)

JZ-1515 BiO

JZ-4515 BiO
(JZ-1515 BiO low viscosity version)

JZ-2540 BiO

JZ-1516 BiO

JZ-1517 BiO

JZ-1506 BiO

JZ-1606 BiO

High Functionality Series

壹科麦 YIKEMAI

JZ-1610 BiO
JZ-1510 BiO
JZ-4610 BiO
(JZ-1610 BiO low viscosity version)
JZ-4510 BiO
(JZ-1510 BiO low viscosity version)

Characteristics - Bio-based polyols

- Bio-based content：85~99%
- Yellow liquid bio-based polyol
- Environmentally friendly, solvent-free and odorless
- Outstanding initial bonding strength, adhesion, excellent hydrophobicity, hydrolytic stability, chemical stability and heat resistance. JZ-1610 BiO has excellent abrasion resistance. JZ-1510 BiO has good impact resistance.
- JZ-1510 BiO features high hardness, low functionality, excellent flexibility and elasticity, and a wide processing window
- JZ-1610 BiOfeatures high hardness, slightly higher functionality than JZ-1510 BiO, faster reaction speed and stronger initial adhesion

Application

Structural adhesives in new energy vehicle batteries

Polyurethane coating

Adhesives (such as adhesives for power batteries) and sealants, etc

Provide synthetic polyurethane products with excellent flexibility and elasticity, a wide processing window, outstanding aging resistance, and low viscosity for easy application

Performance indicators

	JZ-1610 BiO	JZ-4610 BiO	JZ-1510 BiO	JZ-4510 BiO	Test method
Appearance	Yellow transparent liquid	Yellow transparent liquid	Yellow transparent liquid	Yellow transparent liquid	Visual inspection
Functionality	3.5	3.5	3.3	3.3	Theoretical value
Hydroxyl value (mg KOH/g)	370~410	370~410	193~238	210~280	DMAP catalytic method
Acid value	<1	<1	<1	<1	GB-T 12008.5-2010
Viscosity @25℃ (mPa・s)	6200~7200	4500~6500	4000~5500	2500~4000	GB/T 2794-2013
Viscosity @50℃ (mPa・s)	300~900	50~300	500~1100	50~300	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-1610 BiO	JZ-4610 BiO	JZ-1510 BiO	JZ-4510 BiO	Test method
Hardness (D)	85	85	72	74	GB/T 2411-2008
Tensile strength （MPa）	66.5	55.3	26.4	27.6	GB/T 528-2009
Elongation at break （%）	10.9	10.2	23.9	20.4	GB/T 528-2009

High Functionality Series

壹科麦
YIKEMAI

JZ-1615 BiO
JZ-1515 BiO
JZ-4615 BiO
(JZ-1615 BiO low viscosity version)
JZ-4515 BiO
(JZ-1515 BiO low viscosity version)

Characteristics - Bio-based polyols

- Bio-based content：60~99%
- Yellow liquid bio-based polyol
- Environmentally friendly, solvent-free and odorless

- JZ-1615 BiO features excellent hydrophobicity, chemical stability, impact resistance and good processability
- JZ-1515 BiO features excellent hydrophobicity, hydrolytic stability, chemical stability and saponification stability

Application


Polyurethane coating


Adhesives (such as adhesives for power batteries) and sealants, etc


Solvent-free polyurethane flooring, terrazzo, etc

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers advantages such as excellent aging resistance, high strength, low viscosity and easy application

Performance indicators

	JZ-1615 BiO	JZ-4615 BiO	JZ-1515 BiO	JZ-4515 BiO	Test method
Appearance	Light yellow/ yellow translucent liquid	Light yellow/ yellow translucent liquid	Light yellow translucent liquid	Light yellow translucent liquid	Visual inspection
Functionality	3.5	3.5	3.0	3.0	Theoretical value
Hydroxyl value (mg KOH/g)	162~179	162~179	299~331	299~331	DMAP catalytic method
Acid value	<1	<1	<1	<1	GB-T 12008.5-2010
Viscosity @25℃ (mPa・s)	4820~5220	4000~5000	2700~3100	1500~2500	GB/T 2794-2013
Viscosity @50℃ (mPa・s)	350~950	/	200~800	/	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-1615 BiO	JZ-4615 BiO	JZ-1515 BiO	JZ-4515 BiO	Test method
Hardness (D)	50	65	80	80	GB/T 2411-2008
Tensile strength （MPa）	8.5	15.3	44	40.2	GB/T 528-2009
Elongation at break （%）	50	35.8	18	18	GB/T 528-2009

High Functionality Series

壹科麦 YIKEMAI

JZ-2540 BiO

Characteristics - Bio-based polyols

- Bio-based content：60~99%
- Yellow liquid bio-based polyol
- Good water resistance and chemical resistance
- Environmentally friendly, solvent-free and odorless

Application

Polyurethane coating

Polyurethane mortar floor

- Endows synthetic polyurethane products with outstanding wear resistance, scratch resistance, excellent aging resistance, high strength and easy construction advantages.

Performance indicators

	JZ-2540 BiO	Test method
Appearance	Yellow translucent liquid	Visual inspection
Functionality	3.0	Theoretical value
Hydroxyl value (mg KOH/g)	152~168	DMAP catalytic method
Acid value	<1	GB-T 12008.5-2010
Viscosity @25℃ (mPa・s)	7000~9000	GB/T 2794-2013

Polymerize MDI to synthesize polyurethane
（PM200 as a curing agent，index=1.05）

	JZ-2540 BiO	Test method
Hardness (D)	54	GB/T 2411-2008
Tensile strength （MPa）	13	GB/T 528-2009
Elongation at break（%）	78	GB/T 528-2009

High Functionality Series

壹科麦 YIKEMAI

JZ-1516 BiO
JZ-1517 BiO

Characteristics - Bio-based polyols

- Bio-based content：60~89%
- Solid bio-based polyols
- Environmentally friendly, solvent-free and odorless

- JZ-1516 BiOfeatures high hardness, excellent hydrophobicity, hydrolytic stability, chemical stability, saponification stability, relatively high glass transition temperature, good shape memory effect and heat resistance
- JZ-1517 BiO has excellent hydrophobicity, hydrolytic stability, chemical stability, saponification stability and good heat resistance

Application

Polyurethane coating

Adhesives (such as adhesives for power batteries) and sealants, etc

Flooring, terrazzo, etc

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers advantages such as excellent aging resistance, high strength, low viscosity and easy application

Performance indicators

	JZ-1516 BiO	JZ-1517 BiO	Test method
Appearance	Yellow paste-like solid	White solid	Visual inspection
Functionality	3.0	3.0	Theoretical value
Hydroxyl value (mg KOH/g)	299~331	304~336	DMAP catalytic method
Acid value	<1	<1	GB-T 12008.5-2010
Viscosity @50℃ (mPa・s)	150~750	150~750	GB/T 2794-2013

Pure MDI synthetic polyurethane
（NCO = 20%, pure MDI as the curing agent, BDO as the chain extender）

	JZ-1516 BiO	JZ-1517 BiO	Test method
Hardness (D)	86	84	GB/T 2411-2008
Elastic modulus （MPa）	1249	1133	GB/T 528-2009
Tensile strength （MPa）	40.9	56.6	GB/T 528-2009
Elongation at break （%）	3.8	9.5	GB/T 528-2009
Tear strength （N/mm）	71	58	GB/T 529-2008
Bending strength (MPa)	119	/	GB/T 9341-2008

High Functionality Series

壹科麦 YIKEMAI

JZ-1506 BiO
JZ-1606 BiO

Characteristics - Bio-based polyols

- Bio-based content：85~99%
- Yellow liquid bio-based polyol
- Environmentally friendly, solvent-free and odorless

- JZ-1506 BiO features excellent hydrophobicity, chemical stability, impact resistance and good processability
- JZ-1606 BiO features excellent hydrophobicity, good chemical resistance, mechanical properties and processability

Application

Polyurethane synthesis

Structural adhesives, potting compounds, etc

- Endows polyurethane products with excellent mechanical and bonding properties
- Offers advantages such as excellent aging resistance, high strength, low viscosity and easy application

Performance indicators

	JZ-1506 BiO	JZ-1606 BiO	Test method
Appearance	Yellow semi-transparent liquid	Yellow transparent liquid	Visual inspection
Functionality	2.6	3.5	Theoretical value
Hydroxyl value (mg KOH/g)	224~248	204~226	DMAP catalytic method
Acid value	<1	<1	GB-T 12008.5-2010
Viscosity @25°C (mPa・s)	2000~3000	4500~5800	GB/T 2794-2013
Viscosity @50°C (mPa・s)	50~650	500~1100	GB/T 2794-2013

Pure MDI synthetic polyurethane
（NCO = 20%, pure MDI as the curing agent, BDO as the chain extender）

	JZ-1506 BiO	JZ-1606 BiO	Test method
Hardness (D)	82.5	83	GB/T 2411-2008
Elastic modulus （MPa）	809	812	GB/T 528-2009
Tensile strength （MPa）	22.2	44.2	GB/T 528-2009
Elongation at break （%）	4.9	6.4	GB/T 528-2009
Tear strength （N/mm）	57	71	GB/T 529-2008

Water-based Emulsion Series

壹科麦
YIKEMAI

HPU-7800
HPU-7800 ED

Characteristics - Water-based emulsion

- Modified bio-based aqueous dispersions
- Environmentally friendly and solvent-free
- Excellent flexibility and low shrinkage
- Excellent resistance to water, acid and alkali
- Fast strength building

Application

Floor formula system:

- Water-based polyurethane mortar floor (HPU-7800)
- Anti-static floor（HPU-7800 ED）

Performance indicators

	HPU-7800	HPU-7800 ED	Test method
Appearance	Milky liquid	Milky liquid	Visual inspection
Available content （%）	70± 2	70± 2	Theoretical value
Hydroxyl content (wt.%)	2.75	2.75	Theoretical value
Viscosity@25℃（mPa・s）	50~1000	50~1000	GB/T 2794-2022
pH value	3.0~8.0	3.0~8.0	GB/T 6920-86
Density（g/cm3）	1.0~1.1	1.0~1.1	GB/T 4472-2011
Surface resistance(Ω)	/	107～109	

HPU-7800 APPLICATION-Water-Based Polyurethane Mortar Floor Index (Lab test data)

Operable time（25℃）/min	30
Fluidity/mm	135
Compressive strength（7d）/MPa	54.9
Flexural strength（7d）/MPa	14
Abrasion resistance（500g/100r）/g	0.09
Impact resistance (1000g steel balls)	No cracks or peeling on the surface
Water resistance（168h）	No bubbling, no peeling, no cracking, no discoloration
Alkali resistance （20% NaOH，72h）	No bubbling, no peeling, no cracking, no discoloration
Acid resistance（10% H2SO4，48h）	No bubbling, no peeling, no cracking, no discoloration
Oil resistance（120# solvent oil，72h）	No bubbling, no peeling, no cracking, no discoloration
Salt water resistance（3% NaCl，168h）	No bubbling, no peeling, no cracking, no discoloration

Guangzhou Yikemai Special Materials Science and Technology Co., Ltd.

If you are interested in our company's products, you are welcome to inquire or call us

South China : Benny ZHONG +86 186 7583 3703
Ms QIU +86 156 0222 6917
Other area: Ms CHEN +86 132 6279 5658（WECHAT，Skype）
E-mail: marketing@ecco-max.com
R&d/Office Address：Zhihui Innovation Park, Songjiang District, Shanghai, China/ Guangzhou International Business Incubator, Science City, Huangpu District, Guangzhou, Guangdong Province, China
Production Base：Yingde City, Guangdong Province
Website：www.ecco-max.com

Wechat Official Account

Wechat Channel

Douyin Official Account

Fourth edition, August 2025