



Professional Hardener Manufacturer Since 2005

DOXU Chemical Manufacturing Co., Ltd



Company Introduction

In 2005, "DOXU Chemical" purchased 96 acres (63914 square meters) of land in Chaoyang Industrial Zone, Jiangsha Industrial Corridor, and invested 100 million yuan to establish Guangdong DOXU Chemical Industrial Manufacturing Co., Ltd., which began to engage in the production and manufacturing of curing agents and industrial coatings. DOXU curing agent is the core business of DOXU Chemical, and has established good cooperative supply relationships with world-class raw material suppliers and domestic first-class coating enterprises. DOXU curing agent products are widely used in domestic and foreign first-line coating brands. Guangdong DOXU Chemical Industry Manufacturing Co., Ltd. is a well-known product in Guangdong Province and is known as the "best national brand of curing agents" in the industry. It is a national high-tech enterprise and a key "specialized, refined, and innovative" enterprise supported by Guangdong Province.



Enterprise Qualification and Honor



Patented Invention



PU Additive Series Hardener / Curing Agent

TDI-TMP is the main product series, which includes thin film and chemical hardening agents. Widely applicable in the fields of furniture paint, decoration paint, industrial paint, adhesives, etc.

Model	Fe-Co	F-TDI%	NCO%	SC%	CPS , 25°C	Characteristics and Applications
DOXU-L75	≤1	≤0.5	13.0±0.5	75.0±2.0	1000~2000	EU-standard compliant with low free content; high gloss, fullness, hardness, transparency & stability. Suitable for wood coatings, industrial coatings, adhesives, etc.
DOXU-75	≤1	≤2.0	11.6±0.5	75.0±2.0	2500~5000	Excellent compatibility, superior gloss retention, and high transparency. Particularly suitable for high-gloss topcoats, adhesives, and related applications.
DOXU-75A	≤1	/	13.0±0.5	75.0±2.0	2000~5000	High gloss, superior fullness, high hardness, excellent transparency, and outstanding stability. Widely adaptable to traditional general-purpose products.
DOXU-75B	≤1	≤1.5	11.2±0.5	75.0±2.0	3000~7000	Fast-drying, matting, excellent compatibility, and high transparency. Suitable for transparent matte topcoats, primers, etc.
DOXU-70B	≤1	≤0.8	9.8±0.5	70±2.0	900~1700	Fast-drying, matting, with excellent compatibility and high transparency. Suitable for transparent matte topcoats, primers, and the like.
DOXU-60B	≤1	≤0.5	8.2±0.5	60±2.0	250~650	New national standard-compliant product featuring rapid drying, strong matting performance, and high transparency. Specifically suitable for high-transparency matte topcoats and high-transparency primers.
DOXU-75C	≤1	≤1.5	11.8±0.5	75.0±2.0	3000~9000	Fast drying speed, strong matting property, and good compatibility. Suitable for matte topcoats and primers.
DOXU-75D	≤1	/	11.1±0.5	75.0±2.0	3000~9000	Excellent versatility, rapid drying, matting effect, high compatibility, good flexibility, and high cost-effectiveness. Suitable for wood coatings, industrial coatings, adhesives, etc.
DOXU-75E	≤1	≤0.8	11.8±0.5	75.0±2.0	2500~8000	New national standard-compliant product featuring low free content, strong versatility, and excellent compatibility. Specifically suitable for high-transparency matte finishes and high-gloss coatings.
DOXU-75P	≤1	/	13.0±0.5	75.0±2.0	2000~5000	Excellent crosslinking performance, high toughness, and superior solvent resistance. Specifically formulated for leather coatings, hook-and-loop fasteners, and textile crosslinking applications.
DOXU-75R	≤1	/	8.8±0.5	75.0±2.0	15000~25000	Rapid drying rate, excellent toughness, and superior adhesion. Suitable for mahogany furniture coatings, moisture-curing scenarios, and related applications.



PU Trimer Series Hardener / Curing Agent

The TDI self polymerization series products are fast drying matte, glossy high compatibility, environmentally friendly and universal, benchmarking against top international and domestic products. They are widely used in various situations requiring fast drying, as well as inks, adhesives and some special scenarios.

Model	Fe-Co	F-TDI%	NCO%	SC%	CPS , 25°C	Characteristics and Applications
DOXU-550A	≤1	≤0.5	7.7±0.5	50.0±1.0	400~1400	Complies with EU standards, with low free NCO, fast drying, strong matting, high hardness, good compatibility and excellent transparency. Suitable for high-end fast-drying, high-transparency matte topcoats & primers.
DOXU-550B	≤1	≤0.5	7.8±0.5	50.0±1.0	200~600	Complies with EU standards, featuring low free NCO, fast drying, strong matting, high hardness and good cost-effectiveness. Suitable for high-end fast-drying matte topcoats & primers.
DOXU-550C	≤1	≤1.0	7.3±0.5	50.0±1.0	200~500	Low free NCO, fast drying, good matting performance. Suitable for fast-drying matte topcoats, primers and other applications.
DOXU-550D	≤1	≤1.5	8.0±0.5	50.0±1.0	100~300	Universal type, with fast drying, good matting performance and high cost-effectiveness. Suitable for fast-drying matte topcoats, primers and other applications.
DOXU-550E	≤1	≤0.5	7.8±0.5	50.0±1.0	180~400	Complies with EU standards, featuring low free NCO, low viscosity, fast drying, strong matting, high hardness and high cost-effectiveness. Suitable for fast-drying matte topcoats, primers and other applications.
DOXU-650A	≤1	≤0.5	7.2±0.5	50.0±1.0	70~200	Complies with EU standards, featuring low free NCO, fast drying, good gloss retention and excellent compatibility (compatible with most cotton-containing resins and acrylic resins). Suitable for high-end glossy topcoats, primers and other applications.
DOXU-650B	≤1	≤0.5	7.2±0.5	50.0±1.0	70~170	Complies with EU standards, featuring low free NCO, fast drying, good gloss retention, excellent compatibility (compatible with most cotton-containing resins and acrylic resins), and high cost-effectiveness. Suitable for high-end glossy topcoats, primers and other applications.
DOXU-650C	≤1	≤1.5	7.2±0.5	50.0±1.0	75~200	Universal type, featuring fast drying, good gloss retention, excellent compatibility (compatible with most cotton-containing resins and acrylic resins), good versatility and high cost-effectiveness. Suitable for most glossy topcoats, primers and other applications.
DOXU-650D	≤1	≤1.5	7.5±0.5	50.0±1.0	80~250	High versatility (suitable for both glossy and matte finishes), fast drying, moderate matte degree, high tolerance, and universal for both topcoats and primers. Suitable for most fast-drying topcoats, primers and other applications.
DOXU-650E	≤1	≤2.5	8.8±0.5	50.0±1.0	20~80	Universal type, featuring fast drying, high hardness, good gloss retention and high cost-effectiveness. Suitable for glossy topcoats, primers and other applications.



PU anti-yellowing Hardener / Curing Agent

Mainly for HDI series products, it has excellent resistance to yellowing and chemicals. The series includes multiple series of products such as fast drying matte, glossy high compatibility, etc. It is widely used in high resistance applications such as yellowing resistant wood paint, industrial paint, automotive paint, etc.

Model	Fe-Co	F-TDI%	NCO%	SC%	CPS , 25°C	Characteristics and Applications
DOXU-100	≤1	≤0.3	22.0±0.5	100	2500~4000	High fullness, excellent weather resistance and mechanical properties. Suitable for automotive OEM and refinish coatings, exterior architectural coatings, industrial anti-corrosion coatings, and high-weather-resistance wood coatings.
DOXU-190	≤1	≤0.25	19.8±0.5	90.0±2.0	450~650	
DOXU-175	≤1	≤0.3	16.5±0.5	75.0±2.0	130~300	Strong adhesion, good flexibility and excellent weather resistance. Suitable for industrial coatings, aluminum materials, plastic part coatings (e.g., ABS, PC), leather finishes, adhesives and textile coatings.
DOXU-660H	≤1	≤0.5	10.5±0.5	60.0±2.0	250~600	Fast drying, high hardness, strong scratch resistance and good yellowing resistance. Suitable for automotive refinishing, plastic coatings and high-end yellowing-resistant coatings.
DOXU-660HL	≤1	≤0.5	10.3±0.5	60.0±2.0	100~300	Good compatibility, moderate drying speed and good yellowing resistance. Suitable for automotive refinishing, plastic coatings and high-end yellowing-resistant coatings.
DOXU-660HLK	≤1	≤0.5	10.5±0.5	60.0±2.0	30~100	Good compatibility, fast drying speed and excellent yellowing resistance. Suitable for shoe adhesives, textiles, plastics and high-end yellowing-resistant coatings.
DOXU-*N系列	≤1	≤1.0	6.6-11.0	30~50	10~200	Products with different drying speeds and weather resistance can be customized according to customer requirements. Suitable for various scenarios such as yellowing-resistant wood coatings and industrial plastic coatings.



PU Moisture - Hardener / Curing Agent

A complete range of moisture-curing agent series is available, covering products with properties such as low odor & environmental friendliness, universality, fast drying, and yellowing resistance. It is widely applicable to mahogany furniture coatings, sealing primers, floor coatings, eyeglass frames, and hardeners compatible with low hydroxyl value resins.

Model	Fe-Co	FM%	NCO%	SC%	CPS , 25°C	Characteristics and Applications
DOXU-JC75	≤1	≤0.3	7.5±0.5	75.0±2.0	2500±1000	Low free monomer content, low odor and environmentally friendly. Suitable for wood, industrial, leather, textile and other fields, such as high-hardness topcoats, eyeglass frames, high-end redwood furniture, and hardeners compatible with low hydroxyl value resins.
DOXU-TC75	≤1	≤1.5	7.5±0.5	75.0±2.0	2500±1000	Good versatility and high cost-effectiveness. Suitable for floor coatings, wood sealing and other applications
DOXU-FC65	≤1	≤1.5	5.5±0.5	65.0±2.0	1800±800	High gloss, good flexibility, excellent adhesion and good chemical resistance. Especially suitable for difficult-to-adhere substrates such as PC and ABS.
DOXU-KC60	≤1	≤0.5	6.0±0.5	60.0±2.0	350±150	Fast drying speed and easy to sand. Suitable for moisture-curing scenarios requiring fast drying
DOXU-HC80	≤1	≤0.2	9.5±0.5	80.0±2.0	800±400	High yellowing resistance and excellent chemical resistance. Suitable for moisture-curing scenarios requiring high weather resistance.
DOXU-AC100	≤1	0	8.2±0.5	100	8000±4000	Low odor and environmentally friendly, solvent-free, free of free TDI, with good flexibility and good chemical resistance. Suitable for floor coatings, sealing primers, wood coatings, etc. Especially suitable for solvent-free one-component or two-component systems.
DOXU-JC40PMA	≤1	≤0.2	4.0±0.5	40.0±2.0	30±20	Low free monomer content, low odor and environmentally friendly. Suitable for fields such as wood, industry, leather and textiles.



PU Blocked Hardener / Curing Agent

High, medium, and low temperature unsealing curing agents, excellent chemical resistance, high fullness, and high toughness, can be added to improve the adhesion and flexibility of materials. They are widely used as crosslinking agents for industrial paints, automotive paints, metal protection, textiles, printing adhesives, coil coatings, and impact resistant primers.

Model	Fe-Co	FM%	NCO%	SC%	CPS , 25°C	Unblock °C	Characteristics and Applications
DOXU-1075	≤2	≤0.2	10.8±0.5	75.0±2.0	3000±1500	120	HDI blocked type, with low deblocking temperature, excellent weather resistance, good compatibility and easy application. Suitable for automotive coatings, metal protective coatings, industrial baking coatings, and high-end plastics and composites.
DOXU-1175	≤1	≤0.2	11.1±0.5	75.0±2.0	3000±1500	130~140	HDI blocked type, medium deblocking temperature, excellent flexibility and adhesion, good application compatibility, and stable storage. Suitable for automotive and transportation, coil and metal pre-coating, engineering machinery and architectural decoration fields.
DOXU-1275	≤1	≤0.2	10.5±0.5	75.0±2.0	3000±1500	150~160	HDI blocked type, featuring good thermal stability, high deblocking temperature, and superior weather resistance, mechanical properties and chemical resistance. Especially suitable for high-temperature baking industrial coatings, high-performance protective coatings and special protective coatings.
DOXU-2065	≤2	≤0.2	7.8±0.5	65.0±2.0	1800±1000	120	IPDI blocked type, with comprehensive properties such as low-temperature deblocking, high yellowing resistance, high hardness, fast reaction and excellent chemical resistance. Suitable for automotive coatings, high-end wood products and electronic packaging fields.
DOXU-2165	≤2	≤0.2	8.0±0.5	65.0±2.0	1800±1000	130~140	IPDI blocked type, with medium deblocking temperature, excellent weather resistance and good mechanical properties. Suitable for automotive, industrial protection and coil coating fields.
DOXU-2265	≤2	≤0.2	7.6±0.5	65.0±2.0	1800±1000	150~160	IPDI blocked type, with good thermal stability, high deblocking temperature, superior weather resistance, excellent adhesion and chemical resistance. Especially suitable for high-temperature baking industrial coatings and other fields.
DOXU-3165	≤1	≤0.2	5.5±0.5	65.0±2.0	7000±3500	130~140	TDI blocked type, featuring medium deblocking temperature, fast curing reaction, high hardness, stable storage and high cost-effectiveness. Suitable for wood primers, industrial anti-corrosion primers, adhesives and sealants under indoor non-exposed conditions.
DOXU-3150	≤1	≤0.2	4.3±0.5	50.0±2.0	750±300	130~140	



Waterborne Isocyanate Hardener / Curing Agent

Superior hydrophilic performance, long activation period, high hardness, good chemical resistance, both high gloss and matte system products, widely applicable to various water-based two-component polyurethane curing agents, industrial paints, floor paints, crosslinking agents, etc.

Model	Fe-Co	FM%	NCO%	SC%	CPS , 25°C	Characteristics and Applications
DOXU-5100	≤1	≤0.3	20.5±0.5	100	4500±1500	HDI anionic type, with good hydrophilicity and easy emulsification, featuring high gloss, good fullness, fast drying, high hardness and excellent chemical resistance. Suitable for waterborne wood coatings, industrial coatings, floor coatings, crosslinking agents and other applications.
DOXU-5180	≤1	≤0.25	16.4±0.5	80±2.0	250±100	
DOXU-5200	≤1	≤0.3	21.0±0.5	100	2500±1000	Similar characteristics and applications to 5100; improved version with lower viscosity, higher NCO content, better hand-stirrability and hydrophilicity.
DOXU-5300	≤1	≤0.25	21.8±0.5	100	1500±500	HDI anionic type, with low viscosity, excellent hydrophilicity and hand-stirrability, high hardness, certain self-matting effect and superior chemical resistance. Suitable for low-gloss waterborne polyurethane system curing agents, industrial coatings, floor coatings, etc.
DOXU-5380	≤1	≤0.3	17.2±0.5	80±2.0	130±50	
DOXU-6100	≤1	≤0.3	18.0±0.5	100	2500±1000	HDI non-ionic type, with good transparency, excellent flexibility, good water resistance, long pot life and high cost-effectiveness. Suitable for waterborne wood coatings, industrial coatings, floor coatings, crosslinking agents and other applications.
DOXU-6180	≤1	≤0.25	14.4±0.5	80±2.0	180±80	
DOXU-6200	≤1	≤0.3	19.0±0.5	100	1500±800	Similar characteristics and applications to 6100; improved version with lower viscosity, higher NCO content, better hand-stirrability and hydrophilicity.



Waterborne Blocked Isocyanate Hardener / Curing Agent

HDI-based blocked isocyanate curing agent, featuring good hydrophilicity, excellent flexibility, good chemical resistance and stable storage. Widely used in automotive and coil coatings, household appliance baking coatings, high-end wood topcoats, amino baking paint additives, crosslinking agents, waterborne enameled wires and passivators.

Model	Fe-Co	FM%	NCO%	SC%	CPS , 25°C	Unblock °C	sealant
DOXU-1070W	≤2	≤0.2	7.6±0.5	70±2.0	1000~6000	120	DMP
DOXU-1170W	≤2	≤0.2	7.2±0.5	70±2.0	1500~6500	130~140°C	MEKO
DOXU-1270W	≤2	≤0.2	7.8±0.5	70±2.0	1000~6000	150~160°C	ε-CAP
DOXU-1140MPA	≤2	≤0.2	4.0±0.5	40±2.0	10~100	130~140°C	MEKO



Customized Functional Hardener / Curing Agent

According to customers' unique and personalized needs, we carefully customize product properties such as drying speed, hardness, yellowing resistance and hydrophilicity. These customized products are widely used in various fields including wood coatings, industrial coatings, textile printing and dyeing, and inks.

◆ Standard Distributor Product Series:

Primers, General Purpose, Matte, Gloss, Yellowing-resistant, etc.

■ Odorless Functional Product Series:

Anti-prickly heat primer, Ultra-fast drying primer, Anti-cracking fast-drying primer, Fast-drying high-hardness matte, Fast-drying mirror finish, Fast-drying extra-gloss, Fast-drying yellowing-resistant, etc.

■ Other special varieties and customer-customized products, etc.





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