

Cartell Chemical Co., Ltd., established in 1994, is a world-class manufacturer of industrial adhesives, sealants, and specialty chemical products.

Its flagship brand MXBON® delivers high-performance, cost-effective, and reliable solutions for design, manufacturing, assembly, and maintenance across the industrial sector.

MXBON® products are widely used in a broad range of industries, including traditional manufacturing, electronics, electrical engineering, medical equipment, railway transportation, shipbuilding, sports equipment, hand tools, pneumatic tools, 3C electronic products, and the automotive industry.

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Branch/Authorized Dealer Information

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mxbon®



CYANOACRYLATE ADHESIVES



Ethyl General Purpose



21401 Low viscosity, resistant to 121°C heat, surface insensitive

Transparent and colorless, rapid curing.
Suitable for adhesion of most materials.
Especially for bonding to insensitive surfaces and low energy surfaces.

21420 Penetration type, rapid curing

Suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Especially suitable for bonding between plastic and rubber.

21406 Penetration type, resistant to 121°C heat, surface insensitive

Transparent and colorless, rapid curing.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Especially for bonding to insensitive surfaces and low energy surfaces.

21495 Low viscosity, resistant to 121°C heat, general purpose

Low viscosity, rapid curing, high temperature resistant.
Suitable for adhesion of most materials.
Especially suitable for adhesion between plastic and rubber.

21454 Gel-like, resistant to 121°C heat, surface insensitive

Transparent and colorless, rapid curing.
Suitable for vertical surface adhesion and filling of large gaps.
Suitable for adhesion of most materials.
Especially for bonding to insensitive surfaces and low energy surfaces.

21520 Low Viscosity, Ultra-Fast Cure, Heat Resistant up to 121°C

Transparent, colorless, ultra-fast curing.
Low-viscosity formula with excellent wicking ability for tight-fitting parts or capillary gaps.
Excellent bonding strength on metals (especially stainless steel), plastics, and rubbers.
Withstands heat up to 121°C.

21416 Medium viscosity, general purpose, seam-filling capabilities

Can be used for gap bonding of 0.2mm.
Suitable for bonding rough or irregular surfaces.
Especially suitable for adhesion between plastic and rubber.

21523 Medium-Low Viscosity, General Purpose

Clear, colorless, and fast curing for quick bonding.
Medium-low viscosity for good penetration and basic gap filling.
Suitable for most materials, especially plastic-to-rubber bonding.

This series of products are effective for rapid and effective adhesion on dry, porous, low-surface-energy materials or acidic surfaces, or in low-humidity environments. They are suitable for automated production lines of continuous assembly operations. For materials that are difficult to bond to, most adhesives struggle to bond effectively. Therefore, before operation, it should be confirmed whether the materials to be bonded belong to the category of difficult-to-bond materials.

Materials that are considered difficult to bond

PE, PP, PTFE, POM, EPDM, silicone rubber, thermoplastic elastomers TPE, TPU, TPR, electroplated materials, stainless steel, aluminum alloy, etc.

Insensitive surfaces and low surface energy materials



Ceramics, minerals, leather, textiles, foam materials, cork, wood, paper, etc.

Porous materials, water-absorbing materials, acidic surface materials



Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
21401	Transparent	80—150	28 (4,036)	-54°C—121°C	D 85	< 10	< 10	< 5	< 10	< 10
21406	Transparent	15—40	26 (3,803)	-54°C—121°C	D 83	< 10	< 10	< 5	< 15	< 15
21416	Transparent	900—1,500	25 (3,637)	-54°C—100°C	D 84	< 25	< 30	< 40	< 20	< 10
21420	Transparent	1—5	26 (3,758)	-54°C—100°C	D 84	< 25	< 20	< 20	< 30	< 10
21454	Clear to slightly cloudy gel	150,000—200,000	25 (3,680)	-54°C—121°C	D 84	< 5	< 20	< 5	< 15	< 5
21495	Transparent	20—60	27 (3,877)	-54°C—121°C	D 83	< 10	< 10	< 5	< 15	< 15
21520	Transparent	1—5	(3,758)	-54°C—121°C	D 84	< 25	---	< 15	< 20	< 10
21523	Transparent	225—350	28.6 (4,147.6)	-54°C—121°C	---	15-30	10-60	10-40	15-50	< 6

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.



Ethyl Impact Resistance, Rubber Toughened

21380 *Black, medium to low viscosity, resistant to 107°C Heat, impact resistant*

Heat and humidity-resistant, shock and vibration resistant, low hardness. Especially suitable for adhesion between metal, rubber, and plastic.

21410 *Black, high viscosity, heat resistant to 107°C elastic, impact resistant*

Heat and humidity-resistant, shock and vibration resistant, highly flexible. Excellent impact strength and peel strength. Especially suitable for adhesion between metal, rubber, and plastic.

21411 *High viscosity, excellent gap filling, impact resistant*

Heat and humidity-resistant, vibration resistant, highly strong flexible. Excellent impact strength, peel strength, and high shear strength. Especially suitable for adhesion between metal, rubber, and plastic.



21435 *Low viscosity, resistant to 107°C heat, elastic, impact resistant*

Excellent impact strength, peel strength, and high shear strength. Especially suitable for adhesion between metal, rubber, and plastic. Particularly effective for bonding insensitive surface materials and porous materials.

21480 *Black, low viscosity, high strength, impact resistant*

Excellent impact strength, peel strength, and high shear strength. Especially suitable for adhesion between metal, rubber, and plastic.



MXBON® toughened adhesive series: This product line incorporates rubber or anhydride toughening agent formulas. These formulas are designed to absorb and disperse impact and stress on the adhesive layer, resulting in a tougher bond. This enhancement improves the anti-peel strength and impact resistance of the adhesives post-curing. Cartell Chemistry's cutting-edge manufacturing technology ensures that **MXBON® toughened adhesives** offer anti- peel and impact resistance strength 5-10 times higher than general-purpose adhesives.

Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
21380	Black	200—800	27 (3,842)	-54—107°C	D 76	< 100	< 55	< 35	< 85	< 20
21410	Black	1,700—5,000	23 (3,290)	-54—107°C	D 80	< 100	< 40	< 40	< 80	< 30
21411	Transparent	3,500—8,500	30 (4,335)	-54—100°C	D 85	< 20	< 25	< 30	< 20	< 10
21435	Transparent	100—250	26 (3,768)	-54—107°C	D 80	< 55	< 50	< 25	< 55	< 30
21480	Black	100—200	24 (3,486)	-40—100°C	D 80	< 30	< 30	< 20	< 20	< 10

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.



Ethyl High Temperature Resistance

21402 Medium viscosity, high strength, resistant to high temperature 135°C

Transparent and rapid curing, compatible with most plastics. Ideal for long-term high-temperature environments, heat-resistant up to 135°C. Excellent moisture resistance and anti-aging properties. Particularly effective for bonding metal to rubber and high-temperature plastics like PC、ABS, Nylon in assembly.

21919 Low viscosity, medium to high strength, resistant to high temperature 150°C

Colorless to slightly yellow, rapid curing. Ideal for long-term high-temperature environments, heat-resistant up to 150°C. Suitable for bonding most materials.

24919 Low viscosity, medium to high strength, resistant to high temperature 180°C

Colorless to slightly yellow, rapid curing. Ideal for long-term high-temperature environments, heat-resistant up to 180°C. Suitable for bonding most materials. Designed with a secondary curing mechanism that is activated at temperatures higher than 150°C (302°F).



Ethyl Heat and Moisture Resistance

214210 Black, medium to low viscosity, high strength, resistant to 121°C heat

Moisture-resistant, vibration-resistant. Excellent impact strength, peel strength, and chemical resistance. Especially suitable for the adhesion between plastic and rubber.

214211 Black, medium to high viscosity, high strength, resistant to 135°C heat

Moisture-resistant, vibration-resistant, high flexibility. Excellent impact strength, peel strength, and chemical resistance. Especially suitable for the adhesion between plastic and rubber.



The high temperature & heat and moisture resistance series is engineered for bonding in demanding environments. Typical applications include industrial motors, automotive engines, electric furnaces, ovens, disk drives, and high-speed precision motors. It is also applied in consumer and electrical equipment, including hair dryers, hair straighteners, high-voltage transformers, and server cooling systems, ensuring reliable bonding performance even under high heat and high humidity conditions.



Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm ² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
21402	Transparent	500—800	28 (4,037)	-54°C—135°C	D 85	< 60	< 60	< 10	< 60	< 10
21919	Colorless to yellowish	2—6	24 (3,428)	-54°C—150°C	D 80	< 50	-	< 20	< 40	< 20
24919	Colorless to yellowish	2—6	20 (2,824)	-54°C—180°C	D 85	< 50	-	< 20	< 40	< 20
214210	Black	400—600	24 (3,524)	-54-121°C	D 85	< 240	< 240	< 35	< 80	< 30
214211	Black	2,000—3,000	25 (3,660)	-54-135°C	D 85	< 150	< 90	< 30	< 100	< 15

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.



Methoxy Ethyl Cyanoacrylate Low-Odor, Low-Blooming

22401 Low viscosity, resistant to 100°C high temperature, surface insensitive

Transparent and colorless, rapid curing, low odor, low blooming. Suitable for adhesion of most materials. Especially for bonding to insensitive surfaces and low energy surfaces.

22403 Medium to low viscosity, resistant to 100°C high temperature, surface insensitive

Transparent and colorless, rapid curing, high strength, low odor, low blooming. Suitable for the adhesion between metal, plastic, and rubber. Especially for bonding to insensitive surfaces and low energy surfaces.

22411 High viscosity, resistant to 100°C high temperature, excellent gap filling ability, impact resistant

Excellent impact strength, peel strength, and high shear strength. Especially suitable for adhesion between metal, rubber, and plastic.

22435 Low viscosity, resistant to 100°C high temperature, impact resistant, surface insensitive

Transparent and colorless, fast curing. High flexibility, strong bonding strength, humidity resistance, and impact resistance. Especially for bonding to insensitive surfaces and low energy surfaces.

22455 Gel-like, resistant to 100°C high temperature, excellent gap filling ability, surface insensitive

Transparent and colorless, rapid curing, high strength. Suitable for vertical applications and filling large gaps. Capable of gap-filling and bonding up to 0.25mm. Especially for bonding to insensitive surfaces and low energy surfaces.

22460 Penetration type, resistant to 100°C high temperature

Transparent and colorless, rapid curing, high strength. Suitable for post-assembly application of adhesive for capillary infiltration adhesion. Suitable for porous, absorbent, and low surface energy materials.

22480 Black, Low viscosity, high strength, impact resistance

Strong bonding strength, humidity resistance, and impact resistance. Excellent impact resistance, anti-peeling strength, and high shear strength. Especially for the adhesion between metal, plastic, and rubber.

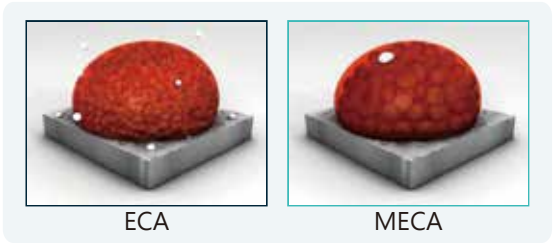
224902 Low viscosity, resistant to 100°C high temperature, ultra-flexible

Transparent and colorless, rapid curing, Shore D 55. High bonding strength, high sealant properties. Suitable for bonding high-flexibility devices.

The methoxy ethyl monomer-based cyanoacrylate adhesive (MECA) produced by MXBON, due to the larger and heavier methoxy ethyl monomer (MECA) compared to the ethyl monomer (ECA), is less likely to disperse uncured monomers. This implies that the methoxy ethyl monomer's cyanoacrylate adhesive (MECA) has significantly improved, if not eliminated, its irritating odor and blooming.

- Ethyl Monomer (ECA) being smaller and lighter, is more likely to disperse, causing a pungent odor and significant blooming.
- Methoxy Ethyl Monomer (MECA) being larger and heavier, is less likely to disperse, reducing the irritating odor and significant blooming.

The MECA produced by MXBON with advanced process technology is superior to other brands low-blooming adhesive products. In addition to ultra-low odor and ultra-low blooming, it does not affect the curing time, bonding strength, or physical properties of MXBON methoxy ethyl adhesive. MXBON has further expanded and optimized methoxy ethyl cyanoacrylate adhesive technology, developing even more superior and competitive methoxy adhesives, such as the market's first black, toughened, ultra-low odor, ultra-low blooming adhesive, MXBON 22480. Because methoxy ethyl adhesive is safer and more environmentally friendly, there are no GHS hazard symbols on the label of MXBON methoxy ethyl adhesive.



Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
22401	Transparent	80—120	24 (3,532)	-54°C—100°C	D 82	< 5	< 5	< 5	< 10	< 15
22403	Transparent	900—1,500	25 (3,604)	-54°C—100°C	D 83	< 10	< 20	< 5	< 15	< 20
22411	Transparent	2,500-4,500	21 (3,079)	-54°C—100°C	D 85	< 10	< 20	< 10	< 15	< 20
22435	Transparent	250—500	25 (3,635)	-54°C—100°C	D 75	< 5	< 5	< 5	< 15	< 15
22455	Clear to slightly cloudy gel	10,000—30,000	22 (3,153)	-54°C—100°C	D 79	< 75	< 30	< 40	< 50	< 30
22460	Transparent	25—55	22 (3,222)	-54°C—100°C	D 78	< 20	< 20	< 5	< 20	< 15
22480	Black	100—200	25 (3,602)	-54°C—82°C	D 80	< 10	< 20	< 5	< 15	< 20
224902	Transparent	30—70	24 (3,523)	-54°C—100°C	D 55	< 5	< 5	< 5	< 15	< 15

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

Methyl Cyanoacrylate



23415 *Medium viscosity, general purpose, gap filling, metal bonding*

Suitable for bonding gaps as small as 0.2mm. Ideal for bonding to rough or irregular surfaces. Especially suitable for adhesion between metal, rubber, and plastic.



23493 *Penetration type, high strength, metal bonding*

Ultra low viscosity, rapid curing, high strength. Suitable for post-assembly application of adhesive for capillary infiltration adhesion. Especially suitable for adhesion between metal, rubber, and plastic.



23496 *Low viscosity, high strength, metal bonding*

Low viscosity, rapid curing, high strength. Suitable for adhesion of most materials. Especially suitable for adhesion between metal, rubber, and plastic.



Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm ² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
23415	Transparent	900–1,500	29 (4,233)	-54°C–100°C	D 81	< 50	< 60	< 40	< 60	< 40
23493	Transparent	1–5	31 (4,547)	-54°C–82°C	D 80	< 45	< 55	< 30	< 65	< 30
23496	Transparent	100–200	26 (3,715)	-54°C–82°C	D 84	< 20	< 50	< 30	< 30	< 25

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

Q&A / Cyanoacrylate Adhesive Q&A

How does cyanoacrylate adhesive cure?

Traditional cyanoacrylate adhesives cure through moisture in the air. When moisture (weak base) is present in the gap between tightly fitted materials, the adhesive reacts quickly at room temperature to cure. MXBON's innovative UV Cure Cyanoacrylate (UVCA) has the curing mechanism of traditional cyanoacrylates, and also contains a photoinitiator, curing rapidly under light exposure, rapidly polymerizing when irradiated with the correct wavelength (long-wave UV and visible light).

What is blooming in cyanoacrylate adhesives? How to improve it?

Uncured cyanoacrylate monomers can evaporate and react with moisture in the surrounding environment, leaving behind white granular residues on the bonding surface. This phenomenon is called Blooming (white fog/whitening). Ways to prevent or reduce blooming include: Before curing: apply less adhesive, avoid excess, accelerate curing (by using an accelerator or heat curing). After curing: avoid enclosed spaces, improve ventilation (airflow, exhaust). The simplest and fastest solution is to use MXBON's ultra low-odor, ultra low-bloom #22 series cyanoacrylates.

What is stress cracking in plastics? What causes it?

Uncured liquid cyanoacrylate adhesive can, under stress conditions, cause cracks to form in certain plastics (such as PC, ABS, PMMA). Some ways to avoid or reduce stress cracking include bonding immediately after applying the adhesive, using reinforced plastics, or applying accelerators to speed curing. We recommend using MXBON UV Cure Cyanoacrylate (UVCA) products.

Why is cyanoacrylate adhesive not recommended for glass?

When cyanoacrylate adhesive is used to bond glass, the initial strength may appear good, but it decreases sharply over time. Because of the inherent properties of glass, curing proceeds very quickly, leading to high stresses parallel to the adhesive bond line. Such stresses make the surrounding polymer susceptible to chemical and physical degradation. Changes in temperature and the release of water molecules in the glass also affect shrinkage and expansion at the bond interface. Therefore, permanent bonding of glass with cyanoacrylates is generally not achievable.

How should cyanoacrylate adhesives be stored?

MXBON[®] cyanoacrylate adhesives are industrial-grade and moisture-curing products. To obtain the best performance and quality, unopened bottles should be stored refrigerated at low temperature. Once a bottle is opened and not used up, it is better stored at room temperature, since refrigeration may cause moisture condensation that leads to premature curing. However, prompt use is still strongly recommended.

How to obtain MXBON TDS and SDS?

MXBON[®] cyanoacrylate adhesive Technical Data Sheets (TDS) can be downloaded directly from the official website www.mxbon.com, and Safety Data Sheets (SDS) are also available upon request. If you have any questions or concerns, please feel free to contact us directly. Our engineers will do their utmost to provide the necessary assistance and support.



UV Cure Cyanoacrylate Adhesive

21441 *Penetration type, UV cure cyanoacrylate adhesive*
Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Ultra low viscosity, suitable for post-assembly application of adhesive for capillary infiltration adhesion.
Especially for bonding to insensitive surfaces and low energy surfaces.

21443 *Medium to low viscosity, UV cure cyanoacrylate adhesive*
Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Easy to apply for gap filling and bonding.
Especially for bonding to insensitive surfaces and low energy surfaces.

22441 *Penetration type, UV cure cyanoacrylate adhesive, low odor, low blooming*
Transparent light yellow, instantly cures.
Double curing mechanism of light curing and moisture curing.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.

22443 *Medium to low viscosity, UV cure cyanoacrylate adhesive, low odor, low blooming*
Transparent light yellow, instantly cures.
Double curing mechanism of light curing and moisture curing.
Suitable for post-assembly application of adhesive for capillary infiltration adhesion.

21446 *Medium viscosity, UV cure cyanoacrylate adhesive*
Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Applicable for bonding larger gaps of 0.15mm.
Especially for bonding to insensitive surfaces and low energy surfaces.

21449 *Gel-like, UV cure cyanoacrylate adhesive*
Transparent light yellow, instantly cures, non-sticky surface.
Double curing mechanism of light curing and moisture curing.
Suitable for vertical surface adhesion and large gap filling.
Especially for bonding to insensitive surfaces and low energy surfaces.

22446 *Medium viscosity, UV cure cyanoacrylate adhesive, low odor, low blooming*
Transparent light yellow, instantly cures.
Double curing mechanism of light curing and moisture curing.
Applicable for bonding larger gaps of 0.15mm.

22449 *Gel-like, UV cure cyanoacrylate adhesive, low odor, low blooming*
Transparent light yellow, instantly cures.
Double curing mechanism of light curing and moisture curing.
Suitable for vertical surface adhesion and large gap filling.

MXBON® UV Cure Cyanoacrylate Adhesive (UVCA) is a revolutionary innovative adhesive technology. UVCA has all the advantages of cyanoacrylate adhesive and light-curing adhesive, but without any limitations. This versatile new UVCA technology has very low outgassing, instantly cures when exposed to light, easily adapts to production lines, and doesn't require a second step of accelerators, activators, or thermal curing. UVCA cures and becomes non-sticky within a few seconds after exposure to low-intensity ultraviolet or visible light sources. Due to the secondary moisture curing mechanism, any UVCA located in areas that are not exposed to light or behind opaque substrates can rapidly cure naturally at room temperature with the original moisture curing mechanism of cyanoacrylate adhesive.

MXBON® UVCA is surface insensitive, not easily affected by the surface conditions of the bonding substrate, hence widely used. It can provide excellent adhesion strength, toughness, and impact resistance with various substrates including elastomers, rubbers, plastics, and metals. At the same time, UVCA can minimize blooming and stress cracking problems on sensitive substrates such as polycarbonate and acrylic.

MXBON® UVCA is an ideal choice for a large number of adhesive applications in almost all industries. In the application of adhering cosmetic containers, speakers, handheld devices, electronic components, etc., MXBON® UVCA has created many successful cases.



Technical Information

Item No.	Viscosity mPa.s (cP)	Shear Strength(ABS) N/mm ² (After 10s)	Shear Strength(ABS) N/mm ² (After 24h)	Temperature Range (°C)	(Shore D)	Fixture time (sec)			
						ABS	Acrylic	PC	PVC
21441	8—20	9	13	-54°C—100°C	D 75	< 15	< 30	< 15	< 150
21443	150—300	7	13	-54°C—100°C	D 82	< 15	< 90	< 40	< 150
21446	600—1,200	7	13	-54°C—100°C	D 83	< 15	< 80	< 40	< 140
21449	30,000—60,000	7	13	-54°C—100°C	D 79	< 15	< 90	< 40	< 150
22441	8—20	9	13	-54°C—100°C	D 75	< 15	< 90	< 40	< 150
22443	150—300	7	13	-54°C—100°C	D 82	< 15	< 90	< 40	< 150
22446	600—1,200	7	12	-54°C—100°C	D 83	< 15	< 80	< 40	< 140
22449	30,000—60,000	7	13	-54°C—100°C	D 79	< 15	< 90	< 40	< 150

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

Special Functionality



21382 High viscosity, high strength, PCB jumper wire fixing

Can be used for 0.2mm gap filling temperature resistance up to 100°C. Used in conjunction with MXBON accelerator for PCB wire jumper bonding. Used in conjunction with MXBON accelerator for thermocouple temperature wire bonding.

21417 Penetration type, transparent, low strength, temporary fixing

Specifically targeted for temporary adhesion applications between metal and glass. Suitable for applications requiring minimal bonding strength. Bonded parts can be separated by soaking in solvent or heating.

21418 Black, high viscosity, heat resistant to 107°C, rubber toughened, metal bonding

Heat and humidity-resistant, shock and vibration resistant, highly flexible. Excellent impact strength, peel strength, and high shear strength. Especially suitable for adhesion between metal rubber, and plastic.

21498 Medium viscosity, heat resistant circulation

Intermittent temperature resistance and heat cycle resistance up to 100°C. Excellent moisture resistance and aging resistance. Especially suitable for the adhesion between metal, plastic, and rubber.

21507 Medium to low viscosity, high strength, 121°C heat resistant adhesive for TPE/TPR bonding

Clear and colorless with excellent sealing performance. Flexible formulation helps absorb substrate deformation stress. Specially designed for bonding thermoplastic elastomer (TPE/TPR) soft tubing to rigid plastics. Achieves medium-strength adhesion even on inactive and low surface energy materials.

22425 Blue, low viscosity, for electronic product plastic screws, low odor, low blooming

Blue, fast curing, low strength screw locking agent. Suitable for fasteners paired with metal and plastic. Ideal for securing screw fastenings in electronic products. Suitable for tamper-proofing and marking electronic components.

22507 Medium to low viscosity, high strength, resistant to 100°C high temperature, low odor, low blooming

Transparent and colorless, with good sealing properties. Flexible, able to buffer stress deformation of substrates. Particularly suitable for bonding TPE thermoplastic elastomer hoses to rigid plastics. Medium-strength bonding achievable with inactive and low surface energy materials.

The special functionality series highlights MXBON’s expertise in developing customized adhesive formulations. We design targeted solutions to meet unique industry and application requirements, including curing speed, flexibility, chemical resistance, and adhesion to special substrates. Supported by our professional R&D team and rigorous quality systems, MXBON delivers tailored formulations quickly, helping customers enhance product performance and competitiveness.



Technical Information

Item No.	Appearance	Viscosity mPa.s (cP)	Shear Strength N/mm² (Psi)	Temperature Range (°C)	(Shore D)	Fixture time (sec)				
						MS	AL	ABS	PC	NBR
21382	Transparent	3,500—8,500	30 (4,335)	-54°C—100°C	D 85	< 20	< 25	< 30	< 20	< 10
21417	colorless to yellowish	3—8	3 (422)	-54°C—100°C	D 70	15-20min				
21418	Black	1,500—4,000	22 (3,198)	-54°C—107°C	D 55	< 120	< 40	< 60	< 90	< 30
21507	Transparent	100—150	43.3 (3,142.3)	-54°C—121°C	D 85	< 10	< 10	< 5	< 5	< 10
21498	colorless to yellowish	400—600	26 (3,786)	-54°C—100°C	D 84	< 25	< 20	< 15	< 20	< 10
22425	transparent dark violet	250—450	NA	-54°C—100°C	D 82	< 5	< 5	< 5	< 10	< 15
22507	Transparent	200—300	24 (3,541)	-54°C—100°C	D 74	< 5	< 5	< 5	< 10	< 15

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

Primer



02770 **Primer for CA**
General Purpose

Improves adhesion to difficult-to-bond materials.
Suitable for inactive surfaces and low. surface energy substrates.

02770A **Primer for CA**
Reinforced

Significantly improves adhesion to difficult-to-bond materials.
Suitable for inactive surfaces and low surface energy substrates.

02770P **Primer for CA**
Flexible

Improves adhesion to flexible, difficult-to-bond materials.
Suitable for inactive surfaces and low surface energy substrates.

CA Accelerator



027452 **Low Blooming CA Accelerator**

Specially designed for cyanoacrylate adhesives to accelerate curing and shorten setting time.
Can be pre-applied or post-sprayed.
Helps maintain a clean appearance and minimizes blooming.

027455 **General Purpose CA Accelerator**

Specially designed for cyanoacrylate adhesives to accelerate curing and shorten setting time.
Can be pre-applied or post-sprayed.
Helps maintain a clean appearance and minimizes blooming.

027456 **Solvent-free CA Accelerator**

Specially designed for cyanoacrylate adhesives to accelerate curing and shorten setting time.
Low odor, non-flash flame non-toxic formula.
Can be pre-applied or post-sprayed.
Helps maintain a clean appearance and minimizes blooming.

Debondor



02768 **General Purpose Debondor**

Suitable for softening and removing all cured cyanoacrylate adhesive and UV adhesive.
Recommended for thick application and soaking.
Applications: cleaning, removal, debonding, blooming removal of cyanoacrylate adhesive.

Cartell Chemical presents an extensive and expert selection of MXBON branded chemical products. This range encompasses primer, accelerators, and debonders, all meticulously crafted to augment the efficacy of MXBON instant adhesives and to satisfy a diverse array of industrial requirements. Overall, the MXBON series delivers efficient and reliable adhesive and removal solutions, catering to a broad spectrum of industrial markets and fulfilling diverse application needs.

Below is a detailed overview of these products

MXBON® Primer Series for Cyanoacrylate Adhesive	This series is specially formulated for difficult-to-bond engineering materials such as PE, PP, Nylon, and PTFE, as well as other low surface energy substrates. The primer is applied to the substrate surface prior to bonding to improve the adhesion of MXBON cyanoacrylate adhesives and solve bonding challenges with these materials.
MXBON® Accelerator Series for Cyanoacrylate Adhesive	This Accelerator Series finds extensive use in several specialized applications, notably in preventing fogging. It must be used judiciously to avoid overreaction. Its suitability extends to electronic assembly tasks, such as coil winding and circuit board wire jumping, and to other uses like woodworking and the rapid fixation of thermocouples.
MXBON® Debondor Series for Cyanoacrylate Adhesive	Designed primarily for detaching objects bonded by instant adhesives and for the removal of residual adhesive. It is also beneficial for surface cleaning, surface modification treatments, and the elimination of excess adhesive and residues. Users should exercise caution in its application, selecting the appropriate method and duration according to the specific situation.

Technical Information

Item No.	Type	Ingredient	On-Part life	Dry time
02770	Primer	n-Heptane	8hrs	< 30sec.
02770A	Primer	n-Heptane	8hrs	< 30sec.
02770P	Primer	2-Propanol	2hrs	< 30sec.
027452	Accelerator	Acetone	1min	< 30sec.
027455	Accelerator	n-Heptane	1min	< 60sec.
027456	Accelerator	Isohexadecane	1min	Will not dry
02768	Debondor	Nitromethane	NA	NA

*The content and data within this list are based on the respective Technical Data Sheets (TDS) of each product. Before deciding on the adhesive to use, it is recommended to conduct actual tests to ensure product performance.

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