

BORNZ BOND[™]



Instant Adhesives

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'A global leader in smart adhesives'

For over a century, we have developed smart adhesive solutions that touch and improve people's daily lives. Customers worldwide use our bonding systems in countless applications and across diverse sectors, including industrial manufacturing, construction, electronics, automotive, medical and packaging.

Our products are often invisible to the end-user, but every day they make a significant contribution to the creation of a safer, more efficient and sustainable world. We are committed to innovation and continually invest in technological advances in our drive to develop ever more capable and adaptable 'smart' adhesives. This commitment is supported by our parent company, Arkema, a globally renowned manufacturer of specialty chemicals and advanced materials.

Through Arkema, we have access to a worldwide infrastructure and full supply chain, including innovative raw materials, sustainable sourcing and energy-efficient production capabilities.

GLOBAL FOOTPRINT

Bostik is one of the world's largest adhesive and sealant companies.









NEW ENGINEERING ADHESIVES

As engineering adhesive applications develop, they raise new challenges. These include questions of how to apply adhesives to ever-smaller and more complex items, how to accelerate curing processes and how to reduce waste, all while complying with environmental and health and safety regulations.

In response, we have developed a portfolio of ground-breaking engineering adhesives that focus on 'by-the-dot' bonding applications. These products sit under the **Born2Bond**™ brand – this name reflects our purpose and the collaborative bond we have with our customers.

OUR VALUES







COLLABORATION



DESIGNED FOR USE IN MULTIPLE INDUSTRIES



AUTOMOTIVE



ELECTRONICS



LUXURY ACKAGING



MEDICAL DEVICES



MRO



Instant Adhesives

The first wave of **Born2Bond**™ products is a collection of instant engineering adhesives.

To date, instant engineering adhesive performance and applications have been constrained by the limitations of existing cyanoacrylate technologies. But now, through a unique process, Bostik has unlocked the potential of these technologies and developed a range of instant adhesives that deliver the high-performance, user-friendly properties engineers need.



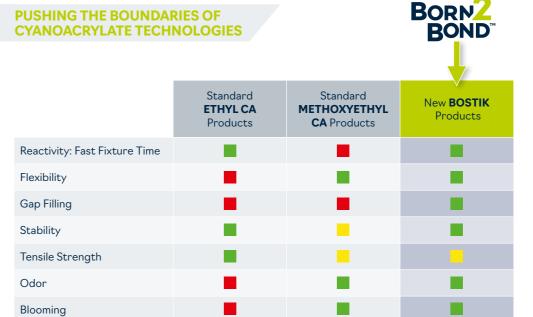




LOW ODOR

LOW BLOOM

HIGH PERFORMANCE



Poor

Moderate

Excellent

2K PRODUCT RANGE



INSTANT ADHESIVES RANGE

Available in a range of advanced formulations, our pioneering **Born2Bond**[™] Instant Adhesives overcome many of the performance and application limitations of existing solutions. Inspired by collaboration with our customers, these products address the challenges presented by today's ever-smaller, more complex products and demand for a high quality finish. They also facilitate faster, smarter production processes while prioritizing user safety and sustainability.



1K

1K PRODUCT RANGE

Born2Bond[™] one-component products are available in varying viscosities and multiple sizes and formats ranging from 20g bottles designed for manual dispensing, to 500g bottles intended for use with automatic dispensing equipment. They are also available in gel form (5g and 20g aluminium tubes) to facilitate precision manual dispensing.







20g bottles for **ULTRA LV**, **MV** & **HV**

500g bottles for **ULTRA MV** & **HV**

5g & 20g alu tubes for **ULTRA Gel**

Born2Bond[™] two-component products are available in 10g syringes designed for manual dispensing and 50g syringes intended for use with dispensing guns. Both are compatible with disposable static mixers.

2K









10g syringes for **FLEX, REPAIR** & **STRUCTURAL**

50g syringes for **FLEX, REPAIR** & **STRUCTURAL**

DUAL CURE

DUAL CURE PRODUCT RANGE

Born2Bond[™] dual-cure (contact and light) products are available in both high-viscosity and gel forms (5g and 20g aluminium tubes) to facilitate precision manual dispensing and 500g bottles intended for use with automatic dispensing equipment.







5g alu tubes for **LIGHT LOCK HV** & **Gel**

20g alu tubes for **LIGHT LOCK HV** & **Gel**

500g bottle for **LIGHT LOCK HV**

Born2Bond" Join the Adhesive Transformation

North America

North America

North America



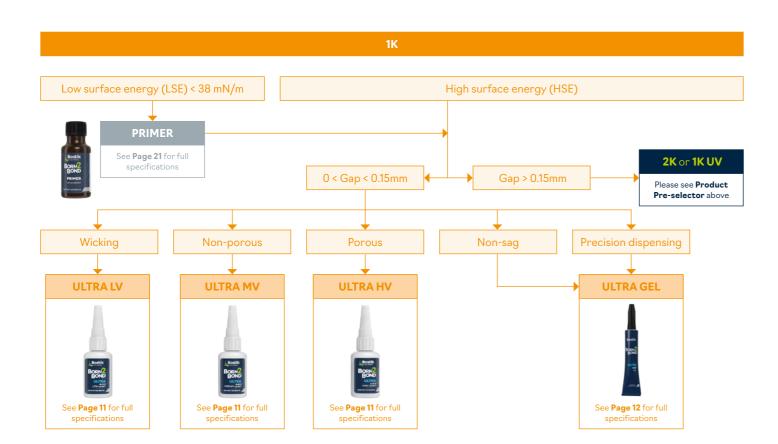
PRODUCT SELECTOR

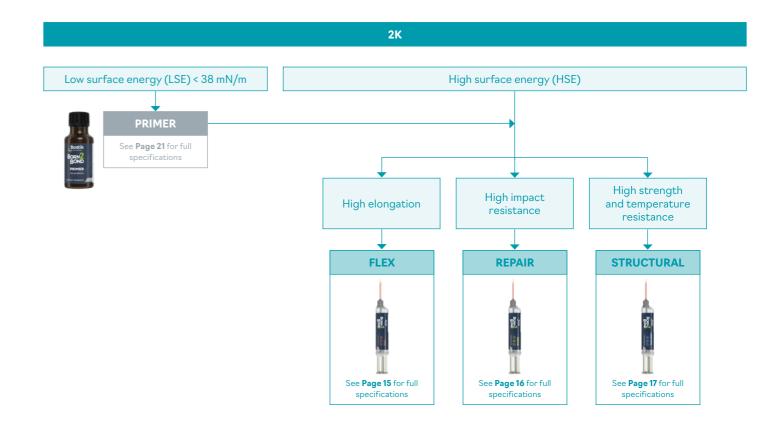
Please use the **Product Selector** below to identify the right solutions for your bonding requirements.

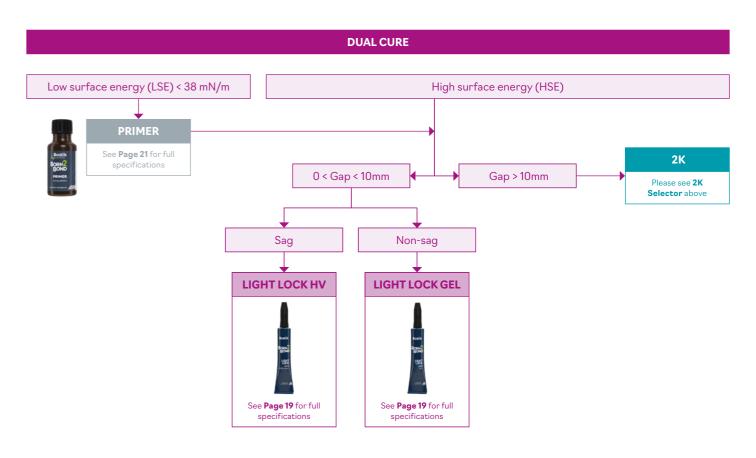
	PRODUCT PRE-SELECTOR						
	1K	2K	DUAL CURE				
GAP FILLING	< 0.15mm	Up to centimeters	< 10mm*				
FIXTURE TIME	5 - 15 sec	>15 sec	< 5 sec*				
OPEN TIME	+++	++	++				
IMPACT RESISTANCE	+	+++	++				

^{*} For light curing

	DEFINITIONS					
GAP FILLING	Dispensing or injecting a one or two-component curing system, resulting in a soft or structural form-in-place elastomer or polymer, used as an adhesive, sealant or to fill a void.					
FIXTURE TIME	Time taken to obtain a level of performance sufficient to hold a load with 1kg weight for 10 seconds.					
OPEN TIME	Time during which one can assemble the two parts of an assembly and obtain the maximum properties.					
IMPACT RESISTANCE	Ability to withstand intense force or shock applied to it over a short period of time. Impact resistance is an important consideration for fall protection equipment.					







⁺ Moderate ++ Good +++ Excellent





Low-odor, low-blooming instant adhesives

The **fastest**bonding MECAbased products in the world

ULTRA



Adhesion





Low-odor Technology

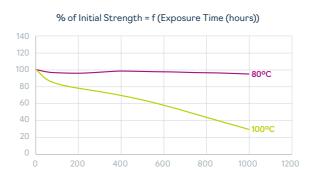
Born2Bond™ Ultra adhesives are low-odor, low-blooming, instant adhesives with a range of viscosities, specially designed for bonding most substrates including plastics, rubbers and metals. The formulation consistency has been designed for high bond strength, even in places that are subject to flexing. Careful selection of the formulation ingredients ensures that the product does not leave a white stain (blooming).

FEATURES

- Fixture time: 10 seconds*
- High bonding strength
- Long open time
- · Low odor, low blooming
- Less brittle than conventional instant adhesives
- Bonds a large range of materials** including polystyrene
- · Transparent and easy to use

TYPICAL APPLICATIONS

- · Leather and rubber bonding
- Shoe assembly
- Automotive aftermarket applications
- Speaker assembly



Choose the right solution using our Product Selector on Page 8



	ULTRA LV	ULTRA MV	ULTRA HV			
BASE	Methoxyethyl Cyanoacrylate					
VISCOSITY (cP)	20 - 50 cP	120 - 170 cP	700 - 1,000 cP			
FIXTURE TIME*	5-10 seconds	10 seconds	15 seconds			
BOND STRENGTH	Grit-Blasted Mild Steel 14 MPa	Grit-Blasted Mild Steel 13 MPa	Grit-Blasted Mild Steel 11 MPa			
APPEARANCE	Transparent					
TEMPERATURE RANGE		-40°C up to +80°C				
AVAILABLE IN		Bottles: 20g, 500g				



Low-odor, low-blooming instant gel adhesives

The **fastest**bonding MECAbased products in the world

ULTRA GEL



High Strength



Low-odor Technology



 \bigoplus

Precision

Born2Bond™ Ultra Gel is a low-odor, low-blooming, instant adhesive specially designed for bonding most substrates including plastics, rubbers and metals. The formulation consistency has been designed for high bond strength, even in places that are subject to flexing. The gel consistency allows application in any orientation. Careful selection of the formulation ingredients ensures that the product does not leave a white stain (blooming).

FEATURES

- · Fixture time: 5 seconds*
- · High bonding strength
- Long open time
- · Low odor, low blooming
- Peel resistance
- Bonds a large range of materials** including polystyrene
- Gel consistency for precise application

TYPICAL APPLICATIONS

- · Leather and rubber bonding
- Shoe assembly
- Automotive aftermarket applications
- Sporting equipment
- Toy assembly
- Bonding glass to metal for jewelry



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140							
120 —							
100							
80							
60						80°0	
40						100°	C
20 _							
0							
0	20	00	400	600	800	1000	1200

% of Initial Strength = f (Exposure Time (hours))

Choose the right solution using our Product Selector on Page 8

TDS and SDS available on request

	ULTRA GEL
BASE	Methoxyethyl Cyanoacrylate
VISCOSITY (cP)	105,000 - 120,000 cP
FIXTURE TIME*	5 seconds
BOND STRENGTH	Grit-Blasted Mild Steel - 13 MPa
APPEARANCE	Transparent
TEMPERATURE RANGE	-40°C up to +80°C
AVAILABLE IN	Tubes: 5g, 20g

Born2Bond™ Respect for the world and workplace We are committed to developing sustainable adhesives and production methods and to protecting the wellbeing of our customers' workforces. Low-energy production processes Safer products Increased user comfort North America





Flexo-elastic, two-part, instant adhesive

The only
2K CA on the
market with
> 200%
elongation

FLEX



& Elastic







Gap



Precision



Resistant

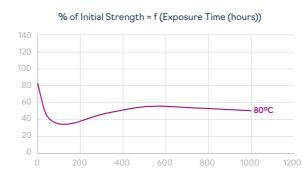
Born2Bond™ Flex is a flexible, elastic and low-odor instant adhesive with exceptional adhesion to a very broad range of materials and surfaces. It becomes a polymer (hardens) with more than 200% elongation with a working time (in mixer) of up to six minutes. It can be used for high-volumetric gap filling, achieving instant adhesion to most plastics, woods and metals as well as to porous and irregular surfaces.

FEATURES

- Fixture time in 60 seconds*
- Hardens in 5-10 minutes*
- Elongation > 200%
- Absorbs impacts and vibrations
- High peel strength
- Bonds a large range of materials** including glass
- · Transparent, low odor, low blooming
- Gel consistency for precise application
- Non-sagging for vertical applications

TYPICAL APPLICATIONS

- · Leather bonding for luxury clothing
- · Sealing repair
- Elastic seam and joint sealing
- · Flooring and panel bonding
- Vibration dampening
- Glass to rubber bonding



Choose the right solution using our **Product Selector** on **Page 8**

	FLEX
BASE	Methoxyethyl Cyanoacrylate
VISCOSITY (cP)	Part A: 120,000 - 170,000 Part B: 70,000 - 130,000
OPEN TIME	6-10 minutes
FIXTURE TIME*	60 seconds
BOND STRENGTH	Grit-Blasted Mild Steel - 10 MPa
APPEARANCE	Transparent
TEMPERATURE RANGE	-40°C up to +60°C
GAP FILLING CAPABILITY	1cm
AVAILABLE IN	Syringes: 10g, 50g



Impact-resistant, two-part, instant adhesive

Faster. tougher and with **half the** shrinkage of the standard

High-strength, two-part, instant adhesive

The toughest structural 2K CA on the market, with the longest open time

REPAIR



Impact Resistant



Drillable & Sandable



Gap Filling



Adhesion

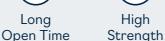
Precision



High Strength

STRUCTURAL









Repositionable



Precision

Multi-substrate Adhesion



Impact Resistant

Born2Bond Repair is a gap-filling, instant adhesive and repair product with excellent adhesion to a very broad range of materials and surfaces. Repair is ideal for instant bonding and repairing, because it combines the strength of a structural adhesive with the speed of an instant adhesive. A tough polymer is achieved within a hardening time of under 10 minutes, and the gel consistency enables application in any orientation.

FEATURES

- Fixture time in 60 seconds*
- · Hardens in 5-10 minutes*
- Instant adhesion with high bonding strength
- Low volume shrinkage: 4.3%
- Fills gaps of large volumes
- Bonds a large range of materials**
- Machinable, sandable and paintable once hardened
- Impact resistant
- Gel consistency for precise application
- Non-sagging for vertical applications

TYPICAL APPLICATIONS

- Automotive aftermarket applications
- · Wood repair and reconstruction
- Rubber door bonding
- Automotive joint bonding
- Plastic defect repairing



	REPAIR
BASE	Ethyl Cyanoacrylate
VISCOSITY (cP)	Part A: 130,000 - 180,000 Part B: 70,000 - 130,000
OPEN TIME	4-10 minutes
FIXTURE TIME*	15-60 seconds
BOND STRENGTH	Grit-Blasted Mild Steel - 14 MPa
APPEARANCE	Whitish
TEMPERATURE RANGE	-40°C up to +80°C
GAP FILLING CAPABILITY	Centimeters
AVAILABLE IN	Syringes: 10g, 50g

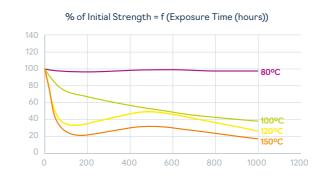
Born2Bond Structural is a high-strength hybrid adhesive that provides a fast fixture time at room temperature while maintaining good processability and bond gaps up to 5mm. This product offers excellent bonding characteristics to a large variety of closed substrates, such as aluminum, steel, plastics and elastomers as well as porous substrates, such as woods, chipboard and leather. Born2Bond™ Structural is formulated for applications that require mechanical and in-use environmental resistance.

FEATURES

- · Fixture time in 30 seconds*
- High adhesion strength: > 6 MPa after 5 minutes
- Open time of 25 minutes
- Fills gaps up to 5mm
- Excellent adhesion to many different substrates**
- Transparent when cured
- Temperature and humidity resistance
- Gel consistency for precise application

TYPICAL APPLICATIONS

- Structural bonding
- Magnet bonding
- Bathroom accessory bonding (plastic to metal)
- Bonding glass to leather



Choose the right solution using our Product Selector on Page 8

TDS and SDS available on request

	STRUCTURAL				
BASE	Hybrid CA & Acrylate				
VISCOSITY (cP)	Part A: 100,000 - 150,000 Part B: 40,000 - 80,000				
OPEN TIME	25 minutes				
FIXTURE TIME*	30 to 90 seconds				
BOND STRENGTH	Grit-Blasted Mild Steel - 14 MPa				
APPEARANCE	Transparent				
TEMPERATURE RANGE	-40°C up to +120°C				
GAP FILLING CAPABILITY	5mm				
AVAILABLE IN	Syringes: 10g, 50g				

% of Initial Strength = f (Exposure Time (hours))

Choose the right solution using our Product Selector on Page 8

TDS and SDS available on request

Born2Bond[™] Join the Adhesive Transformation





Dual cure (light and surface curing) cyanoacrylate

Unique dual cure UV/CA with low odor and low blooming

LIGHT LOCK







Repositionable



ap na



Fast Bonding



Multi-substrate Adhesion

Born2Bond™ Light Lock HV and **Gel** are low-odor, low-blooming, dual-curing (contact and light curing) cyanoacrylate adhesives. They are designed for bonding applications that require fast fixturing, coating or surface cure. The UV and visible-light cure sensitivity allow rapid bonding through transparent parts and quick curing of light-exposed bulk or surface-coated areas. Further, the product's instant bonding capability ensures cure between opaque substrates (contact cure).

FEATURES

- Dual cure formulation: instant and photo-cure
- Fixture time in 60 seconds without light exposure, and 5 seconds with light curing
- Can be cured with visible and UV-LED light
- Long open time without activation
- Dry to touch, tack free surface cure
- Cure-on-demand of excess material released from bondlines
- Bonds, fills, reconstructs and coats
- Low odor, low blooming
- · Available in a range of viscosities: HV and GEL

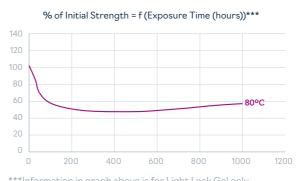
TYPICAL APPLICATIONS

- Conformal coating
- Encapsulation

Low-odor

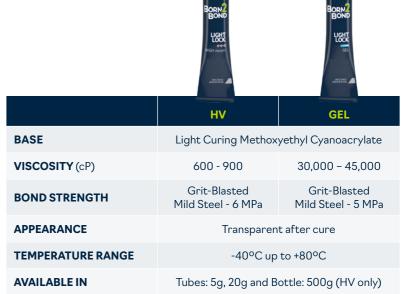
Technology

- Electronics assembly
- Plastic to metal bonding for medical devices
- Glass to metal bonding for jewelry, watches, perfume and liquor bottles



information in graph above is for Light Lock Geroniy.

Choose the right solution using our **Product Selector** on **Page 8**







Best-in-class surface preparation and curing acceleration

SURFACE PREPARATION

Born2Bond ■ **Booster** is a surface preparation product that accelerates cyanoacrylate curing and is specially designed for curing on wood and plastic surfaces. Its long open time and short drying time makes it an ideal choice for professionals. Unlike other accelerators, **Born2Bond** Booster is particularly suitable for promoting quick adhesion when joining parts that are immediately subjected to high stress, like edge coating or shoe soles.

Born2Bond[™] **Primer** is used to make polyolefin and other low surface energy substrates suitable for bonding with cyanoacrylate adhesives. It is only recommended for difficultto-bond substrates, which include polyethylene, polypropylene, polytetrafluoroethylene (PTFE) and thermoplastic rubber materials. **Born2Bond**[™] **Primer** is not recommended in assemblies where high peel strength is required.

FEATURES

- · Increases curing speed of cyanoacrylate adhesives on acidic woods and porous substrates
- Dries in seconds
- Open time: 24 hours
- Transparent
- · Easy to use

FEATURES

- Improves adhesion to difficult-to-bond substrates
- · Specially formulated for adhesion of polyolefins
- · Suitable for use with other cyanoacrylates
- Dries in seconds
- Increases adhesion strength

TYPICAL APPLICATIONS

- Preparation of surfaces
- Acceleration of bonding for wood, leather and vertical surfaces



Choose the right solution using our Product Selector on Page 8

TDS and SDS available on request

Always use glasses and gloves when applying adhesives.

TYPICAL APPLICATIONS

- Preparation of surfaces
- Bonding of difficult-to-bond plastics and polyolefins



Choose the right solution using our Product Selector on Page 8



Best-in-class products to support your application needs

SUPPORTING PRODUCTS

In conjunction with our **Born2Bond**[™] adhesives, we offer a variety of products to help you optimize substrate preparation and application processes.

Bostik Cleaner* is a powerful preparation agent that is highly suitable for cleaning and degreasing substrates before applying **Born2Bond**™ products.

FEATURES

- Elevated evaporation rates
- 'No stress-cracking' on plastic
- Easily diluted for use
- High efficiency for degreasing

TYPICAL APPLICATIONS

 Cleaning and degreasing of a variety of substrates



Choose from a complete range of **dispenser** guns and **disposable static mixers**.



DISPENSER GUNS

- · Minimum trigger pressure for effortless use
- Ergonomic design for comfort and minimum fatigue



DISPOSABLE STATIC MIXERS

- Ensures optimal mixing of two-component adhesives
- Variants available for both 10g and 50g syringes



SUBSTRATE TABLE

To help you select the best **Born2Bond**[™] product for your needs, this table shows the bonding compatibility between different substrate types and adhesives within the **Born2Bond**[™] range.

	ULTRA LV	ULTRA MV	ULTRA HV	ULTRA GEL	REPAIR	STRUCTURAL	FLEX	LIGHT LOCK HV	LIGHT LOCK GEL
ABS Acrylonitrile-butadiene- styrene	***	***	***	***	***	***	***	***	***
PC Polycarbonate	***	***	***	**	***	***	***	***	***
PC/ABS Blend of PC and ABS	***	***	***	**	***	***	***	***	***
PE Polyethylene	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)
PMMA Poly(methyl methacrylate)	***	***	***	***	***	***	***	***	***
PP Polypropylene	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)
PPO Poly(phenylene oxide)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)
PS Polystyrene	**	**	**	**	*	**	**	**	**
PS Polystyrene (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)	*** (with Primer)
PU Polyurethane	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)	** (with Primer)
PVC Polyvinyl chloride	***	***	***	***	***	***	***	***	***
TPU Thermoplastic polyurethane	** (with Primer)								
AL Aluminum	**	**	**	**	**	***	**	**	**
Coated AL Powder coated or anodized aluminum	**	**	**	**	**	***	**	**	**
GL Glass	**	**	**	**	**	***	**	*	**
Si Silicone	** (with Primer)	** (with Primer)							
Stainless steel	***	***	***	***	***	***	***	***	***
Mild Steel	***	***	***	***	***	***	***	***	***
GBMS Grit blasted mild steel	***	***	***	***	***	***	***	***	***

Compatibility: * Moderate ** Good *** Excellent

Born2Bond[™] Join the Adhesive Transformation

*Available in Europe only.

North America

North America



Top tips to help you optimize bonding performance

BEST PRACTICE BONDING

Substrate and Surface Preparation

The nature of the substrate and its surface impacts the bondline performance.

- The surface must be cleaned with the appropriate cleaner to eliminate surface contaminants and increase wettability before applying the adhesives.
 We recommend **Bostik Cleaner**, or, as a minimum, an alcohol wipe.
- Mechanical pretreatment (sanding, grinding, laser etching, etc.) will eliminate surface contaminants and increase surface roughness to enhance bonding performance.
- Bonding performance can vary depending on the surface energy of the substrate. Applying Born2Bond™ Primer will improve adhesion on low surface energy substrates (< 38 mN/m) (e.g. plastics, PPE).
- Fixture time varies with different types of substrates.
 Applying Born2Bond™ Booster will accelerate fixture time on acidic and porous substrates.



Service Conditions

The performance of the adhesive is driven by the service conditions and stress that the bondline will be exposed to:

- Load: cyclical or steady
- **Temperature:** cyclical or steady
- · Chemicals: motor oil, solvents, etc.
- Humidity: constant or accidental

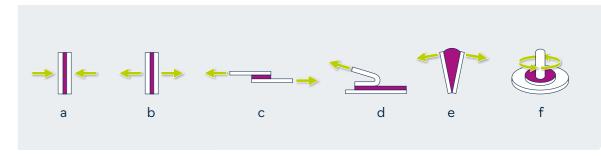
Please refer to our product selector and technical data to choose the right product.

Designing with Adhesives

There are five major types of stress that affect the bondline (see diagram below).

Types of Stresses

- a: Compression
- b: Tension
- c: Shear
- d: Peel
- e: Cleavage
- f: Torsional

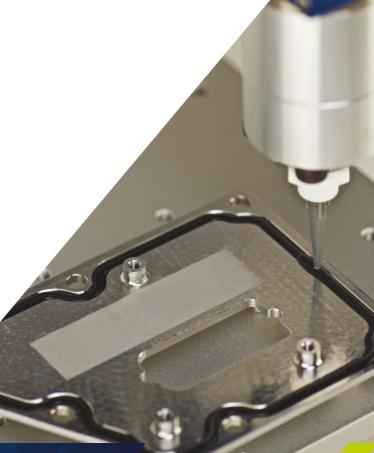


- Adhesives are strong in shear strength but weaker in peel and cleavage strength (see diagram above)
- Consideration of the gap is important; a thinner gap provides a stronger bondline and helps to speed up curing time
- Joints must be designed based on the load the bondline will be exposed to. For higher loads, try to maximize the bonding area for increased strength

Application Process

The method in which adhesive is applied impacts bondline performance.

- Bondline performance depends on the quantity and consistency of adhesive applied to the surface.
- Adhesives can be applied using automatic dispensing equipment and/or manual systems (e.g. syringes, guns, bottles).
- Fully automated systems will improve the control and speed of dispensing.



BORN2 BOND

PRODUCT FEATURES

The list of features in this table will help you identify which products best match your needs.

	ULTRA LV	ULTRA MV	ULTRA HV	ULTRA GEL	REPAIR (4:1)	STRUCTURAL (4:1)	FLEX (4:1)	LIGHT LOCK HV	LIGHT LOCK GEL
CHEMISTRY	MECA	MECA	MECA	MECA	ECA (A) Plasticizer (B)	Blend MECA-ECA	MECA (A) Plasticizer (B)	MECA	MECA
APPEARANCE	Transparent	Transparent	Transparent	Transparent	Whitish	Transparent	Transparent	Transparent yellowish	Transparent yellowish
VISCOSITY (cP) 25°C (77°F)	20 - 50	120 - 170	700 - 1,000	105,000 - 120,000	Part A: 130,000 -180,000 Part B: 70,000 -130,000	Part A: 100,000 -150,000 Part B: 40,000 -80,000	Part A: 120,000 -170,000 Part B: 70,000 -130,000	600 - 900	30,000 - 45,000
OPEN TIME	N/A	N/A	N/A	N/A	4 – 10 min	25 min	6 – 10 min	N/A	N/A
TEMPERATURE USE RANGE	-40°C up to +80°C	-40°C up to +120°C	-40°C up to +60°C	-40°C up to +80°C	-40°C up to +80°C				
FIXTURE TIME (S) - MILD STEEL	5	5	5	5	5	15	30	10	10
FIXTURE TIME (S) - ABS	10	10	10	10	30	35	45	20	20
FIXTURE TIME (S) - PC	15	20	25	20	30	40	60	30	40
TENSILE STRENGTH (MPA) (GBMS)	14	13	11	13	14	14	10	6	5
ELONGATION AT BREAK (%)	N/A	N/A	N/A	N/A	12	16	259	N/A	N/A
IMPACT RESISTANCE (AFTER 24H) (KJ/M²) ISO 9653	9.4	9.5	9	6.4	15	27	21	13	16.3

ECA: ethoxyethyl cyanoacrylate MECA: methoxyethyl cyanoacrylate



DISCLAIMER

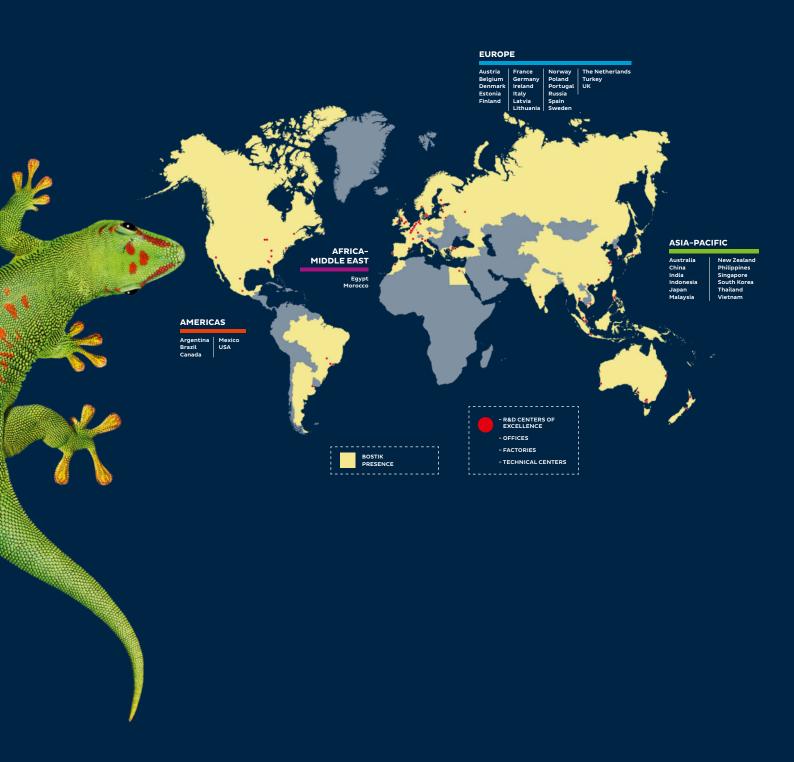
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