

ATTACHED TO YOUR WORLD

Engineering Adhesives

PRODUCT CATALOGUE 2025



Welcome

This catalogue is designed to meet the needs of professionals in engineering design, assembly, maintenance and repair.

Inside, you'll find information on our innovative and sustainability-enabling solutions, including adhesives that help to reduce carbon footprints, support circular economies and perform reliably under extreme conditions.

We also explore the key megatrends shaping our industry – such as technological advancements, workforce changes, legislation and environmental challenges – and how Bostik's products meet these evolving demands. To help you get the best results, this catalogue provides practical guidance on everything from surface preparation to curing techniques.

Additional support is available through our training academy and other resources. With a comprehensive range of products, including the precision-focused Born2Bond[™] range and recently added Polytec PT range, this catalogue is your guide to solving today's engineering adhesive challenges. For further assistance, our team is always ready to help.

















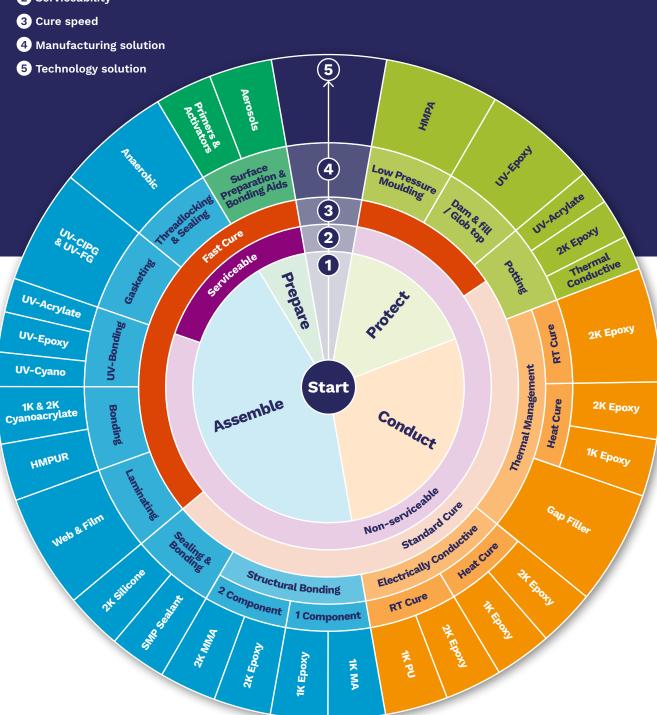
TURN THE PAGE TO USE THE
BOSTIK ENGINEERING ADHESIVES
PRODUCT WHEEL

Bostik Engineering Adhesives product wheel

FIND THE RIGHT SOLUTION FOR YOUR ADHESIVE NEEDS

Five steps to your manufacturing solution:

- 1 Challenge
- 2 Serviceability





PREPARE

Page 30 —>

Proper surface preparation is critical for achieving reliable and high-strength bonds. Bostik offers solutions for cleaning and pre-treating substrates, including degreasers, cleaners and advanced methods like primers, ensuring optimal adhesive performance and reproducibility on metals and plastics.



ASSEMBLE

Page 38 —>

Bostik's structural adhesives deliver strong, durable bonds that withstand mechanical stress and variable environmental conditions. By reducing reliance on mechanical fasteners, they improve operational efficiency and product integrity, making them a trusted choice in industries such as automotive, aerospace and electronics.



PROTECT

Page 104 ——>

Bostik's protective adhesives create a robust bond while shielding components from environmental damage. By forming a barrier against moisture, UV, chemicals and dust, these adhesives ensure long-lasting durability in diverse industries, safeguarding sensitive materials and components from external elements

CONDUCT

Page 114 ——

Functionalised conductive adhesives from Bostik combine bonding strength with advanced thermal or electrical conductivity. Designed for applications like microelectronics and automotive engineering, they dissipate heat and conduct electricity, enabling efficient, reliable connections while maintaining product integrity and performance.



Bostik Engineering Adhesives

Bostik's advanced adhesive solutions address critical challenges faced by product designers and manufacturers. With the acquisition of Polytec PT in 2023, Bostik has expanded its portfolio to include specialised materials, such as thermally and electrically conductive adhesives, offering a comprehensive 360° solution portfolio. Bostik adhesives enhance operational efficiency, product durability and sustainability across industries such as automotive, aerospace and electronics, empowering innovation in modern manufacturing.

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A global leader in smart adhesives

Bostik is a global leader in adhesive solutions with over 130 years of expertise. Specialising in smart bonding and sealing technologies, Bostik enhances safety, flexibility and efficiency across industries such as construction, industrial manufacturing and consumer markets.

Operating in more than 40 countries, Bostik employs over 7,000 people and operates four advanced research and development centres, ensuring close collaboration with customers and the ability to swiftly adapt to evolving market needs. Bostik is also a sustainability enabler, supporting the development of more efficient processes and offering a huge range of adhesive solutions, including low-carbon footprint products and bio-based chemistries.

GLOBAL FOOTPRINT



2024 annual sales





countries



As the Adhesive Solutions segment of the Arkema Group, Bostik benefits from the extensive resources of a global leader in specialised materials.

By combining innovation, technical excellence and a commitment to customer success, Bostik and Arkema continue to shape the future of adhesive technology and enable advancements across a wide range of applications.







A global leader in specialty materials

Arkema is a global leader in specialty materials, driving innovation across adhesives, advanced materials and coatings. Operating in 55 countries, Arkema manages 151 production sites and 17 research and development centres.

Committed to sustainable development, Arkema leverages cutting-edge technologies to deliver solutions that meet the evolving needs of industries including construction, automotive and consumer goods. As the parent company of Bostik, Arkema strengthens its leadership by providing pioneering materials for a more sustainable, efficient future.

GLOBAL FOOTPRINT



2024 annual sales



<u>•</u>

countries



Coating Solutions



ARKEMA



Arkema and Bostik: A portfolio of excellence

The Arkema Group and Bostik bring together unmatched expertise to deliver innovative, sustainable and high-performance adhesive solutions.

With Arkema's cutting-edge chemical technologies, specialty materials and Bostik's global reach, technical know-how and backward integration, we ensure reliable supply chains, innovative materials and tailored adhesive solutions to meet the needs of a diverse range of industries.

ARKEMA

Arkema drives global innovation in specialty materials with a commitment to innovation and sustainability.



Bostik delivers ground-breaking, optimal adhesive technologies to enhance safety, flexibility and efficiency worldwide.

THERMELT®





High-performance, biobased hot melt polyamide resins and adhesives for multiple manufacturing applications. Advanced, precisionfocused engineering adhesives that focus on 'by-the-dot' bonding applications. Thermally and electrically functionalised, specialty adhesives and materials for demanding technical applications.

OUR BRANDS BOSTIK ENGINEERING ADHESIVES

BORN2 BOND

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, born out of our purpose and the collaborative bond we have with our customers.



THERMELT®

For over 40 years, Thermelt® has been the choice of designers, engineers and global supply managers seeking the very best protection, durability and performance.

A range of bio-based hot melt polyamide resins and adhesives, they are ideal for many applications including automotive, electronics and medical devices.





Polytec PT

Our Polytec PT range consists of specialty adhesives and thermal interface materials for applications in electronics, electrical engineering and the automotive sector.

Solutions include electrically and thermally conductive adhesives, UV-curing adhesives, high-temperature application products and silicone-free thermal interface materials.



BOSTIK ENGINEERING ADHESIVES OUR BRANDS 9



The world is changing

The pace of change in today's world is unprecedented. Societies and industries are navigating a confluence of challenges: the drive for sustainability, digital transformation and evolving consumer demands.

Industries must innovate to reduce environmental impacts, embrace circular economies and adapt to the demands of new technologies, such as AI and the Internet of Things (IoT).

Global initiatives such as the Paris Agreement are driving businesses to set ambitious emissions targets and adopt sustainable practices. Companies are being challenged to balance growth with environmental responsibility while meeting the demands of a more conscious and connected world.

Bostik and Arkema are leading this transition, leveraging science and innovation to develop materials that meet today's needs and anticipate future challenges.

Through high-performance adhesives and advanced manufacturing solutions, we empower industries to adapt, innovate and thrive – and enable sustainability – in a rapidly evolving world.

Scan to learn how Bostik is driving sustainability





Through responsible manufacturing, innovative solutions and trustworthy collaboration with our stakeholders, we aim to drive real and measurable change in the adhesives industry.







Driving a more sustainable future together

Bostik's mission is closely aligned with the UN's Sustainable Development Goals (SDGs), focusing on responsible manufacturing, innovation and collaboration. The Arkema group, of which Bostik is part of, is committed to reducing greenhouse gas emissions by 48.5% for Scopes 1 and 2 and 67% for Scope 3 compared to 2019 by 2030, with the ultimate goal of reaching net-zero by 2050.

SCOPE 1

Direct emissions from owned or controlled sources.

This includes fuel combustion at facilities and company vehicles.

SCOPE 2

Indirect emissions from the generation of purchased electricity, steam, heating and cooling consumed by the company.

SCOPE 3

All other indirect emissions that occur across the value chain. This includes emissions from suppliers, product distribution, employee travel and the end-of-life treatment of products.

By addressing emissions at all three levels, Bostik and Arkema are working towards comprehensive carbon reduction that spans our operations and the wider supply chain.





SCOPES 1 and 2

48.5% | REDUCTION V



SCOPE 3

67% | REDUCTION \forall



¹Scan to learn more about **Arkema's 2050 net zero goal**





Advancing more sustainable innovation



Our sustainability strategy is built on three key pillars: responsible manufacturing, innovative solutions and trustworthy collaboration. We advance sustainable innovation by promoting the creation of adhesives that contribute to the principles of a circular economy, for example by enabling recycling or incorporating renewable raw materials.

Products like our bio-based adhesives and low-VOC formulations showcase our commitment to improving health, safety and minimising environmental impact.

Collaboration drives everything we do. By partnering with stakeholders, we develop forward-thinking

solutions that meet the needs of industries while maintaining respect for the planet.

With clear goals and decisive actions, Bostik empowers industries to achieve a more sustainable and equitable future.

PILLAR 1



PILLAR 2



PILLAR 3



Responsible Manufacturing

Scan to learn more about **Responsible Manufacturing**

Innovative Solutions



Scan to learn more about **Innovative Solutions**

Trustworthy Collaboration



Scan to learn more about **Trustworthy Collaboration**



Engineering Adhesives megatrends

The engineering adhesives sector is undergoing rapid transformation, shaped by technological advancements, sustainability imperatives, supply chain resilience and workforce dynamics.

As industries like Maintenance, Repair and Overhaul (MRO) and electronic device manufacturing evolve, adhesives play a pivotal role in driving innovation, efficiency and durability. This topic explores the critical megatrends reshaping the adhesives landscape and their implications across sectors.









MEGATRENDS

- 1. Digital transformation
- 2. Sustainability and circular economy
- 3. Supply chain resilience
- 4. Workforce shortages and automation
- 5. Accreditation and innovation







Digital transformation

Technological advancements are revolutionising industrial processes, with Industry 4.0, IoT and automation creating smarter, more efficient manufacturing environments.

Engineering adhesives are evolving to meet the demands of digital transformation by enabling faster, more precise and more complex assemblies.

MRO SECTOR

Predictive and preventative maintenance is becoming a cornerstone of MRO operations, driven by IoT sensors and digital twin technology. Adhesives used in this sector must withstand repeated stress cycles and extreme conditions while integrating seamlessly with automated inspection systems.



74% of companies in MRO cite digital transformation as a top priority, with IoT adoption projected to grow by 21% annually.1

BOSTIK IN ACTION

Bostik's Born2Bond™ anaerobic adhesives provide durable and reliable bonds that can withstand extreme temperatures, vibration and stress. Their consistent performance helps improve safety and efficiency in maintaining bonded components over time.



ELECTRONIC DEVICE MANUFACTURING

Miniaturisation and component density in electronic devices drive demand for precision bonding solutions. UV-curable adhesives and conductive adhesives enable faster, automated production while reducing assembly errors.



BOSTIK IN ACTION

Bostik's Born2Bond™ UV adhesives enable precise microelectronics bonding without heat damage, while its extensive range of electrical and thermal conductive adhesives ensure optimal functionality, enhancing intricate circuit assembly and accelerating throughput.



¹https://www.sphericalinsights.com/reports/digital-mro-market

 $^{^2\,}https://finance.yahoo.com/news/internet-things-iot-market-expand-224000733.html$





Sustainability and circular economy

Sustainability is at the heart of industrial strategy, with adhesives playing a key role in reducing environmental impact, supporting circular economies and enhancing product life cycles.

MRO SECTOR

Aerospace and automotive industries are prioritising adhesives that enable disassembly and recycling at the end of a product's life. This extends component longevity and reduces landfill waste.



Aerospace MRO accounts for 12% of global transport emissions. Adhesives designed for reuse or easy removal are essential for achieving carbon reduction targets.³

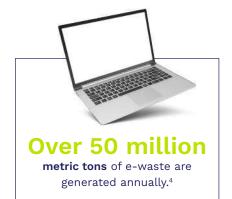
BOSTIK IN ACTION

Bostik's Thermelt® adhesives and resins may enable reworkable bonds in automotive parts, contributing to more sustainable repair practices.

And our Born2Bond™ Anaerobic Adhesives, including precise threadlocking and gasketing adhesives, allow easier, more reliable maintenance.

ELECTRONIC DEVICE MANUFACTURING

E-waste is a growing challenge, with over 50 million metric tons generated annually. Adhesives that enable recyclable assemblies, reduce hazardous substances and integrate bio-based materials are crucial to mitigating this issue.



BOSTIK IN ACTION

Bostik's bio-based adhesive formulations reduce volatile organic compounds (VOCs), supporting more eco-friendly electronics production. And, being debondable by heat, our Born2Bond™ High Performance HMPUR range also facilitates end-of-life recycling.



³ https://www.royaleinternational.com/2023/11/sustainability-in-mro-green-practices-and-innovations

⁴ https://www.statista.com/topics/3409/electronic-waste-worldwide/





Supply chain resilience

Global supply chain disruptions have underscored the need for resilient, flexible adhesive solutions that can adapt to material shortages and production delays.

MRO SECTOR

Manufacturers require adhesives that can bond a variety of substrates, reducing dependency on specific materials and ensuring operational continuity.



75% of MRO respondents expect supply chain disruptions to persist for another 1-3 years.⁵

BOSTIK IN ACTION

Bostik's multi-substrate adhesives allow repair operations to proceed even when standard materials are unavailable, ensuring continued service life.

Our global setups and backward integration in diverse raw materials also reduce disruptions to availability.



ELECTRONIC DEVICE MANUFACTURING

Recent semiconductor shortages and logistical delays have underscored the need for greater transparency in capacity, material flow and customs to ensure uninterrupted production.



The semiconductor industry is projected to reach a market size exceeding \$750 billion in 2025, driven by advancements in automotive electronics, AI and high-performance computing.6

BOSTIK IN ACTION

Bostik and Arkema, as major suppliers in the industry, anticipate trends and market shifts well in advance, allowing them to adjust capacities and implement contingency plans to ensure reliability as a trusted partner in this market.



⁵ https://mrobusinesstoday.com/how-mros-are-tackling-the-global-supply-chain-crisis-a-new-era-of-repair-instead-of-replace/

⁶ https://www.fortunebusinessinsights.com/semiconductor-market-102365





Workforce shortages and automation

Labour shortages and the increasing complexity of advanced manufacturing, require simplified processes, reduced manual interventions and enhanced automation.

MRO SECTOR

A shortage of skilled technicians necessitates adhesives that require minimal application training and deliver consistent performance.



The MRO market is projected to grow by 2.9% annually through 2033 but faces a significant talent gap.⁷

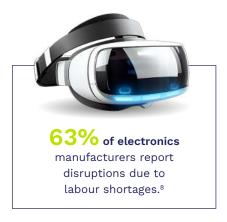
BOSTIK IN ACTION

Bostik's easy-to-apply single component (1K) adhesives eliminate complex mixing procedures, supporting faster repairs in field operations. We are always investing in more sustainable solutions that make products easy to apply and remain compliant to evolving legislation.



ELECTRONIC DEVICE MANUFACTURING

Automation is critical to offset workforce shortages, with adhesives designed for robotic application enabling more consistent production.



BOSTIK IN ACTION

Bostik's volumetric dispensing compatible adhesives allow precise robotic application, reducing human error and increasing throughput.



 $^{^7} https://arsa.org/wp-content/uploads/2023/03/ARSA-OW-2023FleetandMarketReport-ExecutiveSummary.pdf$

https://www.electronicsworld.co.uk/electronics-manufacturers-reeling-from-components-and-skills-shortages-report-reveals/36049/





Accreditation and innovation

The need for adhesives that comply with stringent safety, environmental, and performance standards drives both accreditation and innovation in the industry.

MRO SECTOR

Innovation and accreditation drive the development of advanced adhesive technologies, enhancing their effectiveness in demanding MRO applications while ensuring compliance with industry-specific regulations.



BOSTIK IN ACTION

Selected Bostik Born2Bond™ anaerobic adhesives comply with NSF standards, reflecting Bostik's commitment to meeting stringent health and safety regulations across various industries.



ELECTRONIC DEVICE MANUFACTURING

Adhesives used in medical devices and electronics may need to meet biocompatibility and low-outgassing requirements.



The global medical device market is projected to reach \$612.7 billion in 2025, with a significant portion requiring biocompatible adhesives.10

BOSTIK IN ACTION

Many products in the **Born2Bond™** range comply with ISO 10993 standards, ensuring suitability for medical device applications.



⁹ https://blog-idceurope.com/top-3-regulatory-concerns-of-european-organizations-for-the-next-two-years/

¹⁰ https://nabi.bio/biocompatibility-testing-a-guide-for-medical-device-manufacturers



Engineering Adhesives challenges

The engineering adhesives market faces multifaceted challenges as industries adapt to evolving demands in sustainability, regulatory compliance, performance and operational efficiency.

Addressing these challenges is crucial for advanced manufacturing and enabling product innovation. Adhesives are increasingly expected to deliver on multiple fronts – enhancing durability, enabling recyclability and improving productivity – all while navigating complex regulatory landscapes.

This topic explores key challenges in engineering adhesives, providing insights into how the industry is adapting to these pressing demands.









CHALLENGES

- 1. Sustainability
- 2. Regulatory and compliance
- 3. Customer and market demands
- 4. Performance and innovation
- 5. Operational efficiency

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1 Sustainability

The drive toward sustainability is reshaping the adhesive industry, with manufacturers under pressure to develop eco-friendly solutions that reduce environmental impact without compromising performance. Adhesives play a critical role in enabling circular economies and reducing carbon footprints across industries.

KEY FOCUS AREAS

LIFE CYCLE ANALYSIS

Adhesives must be evaluated for their impact at every stage of the product lifecycle, from sourcing to disposal.

DURABILITY AND REPAIRABILITY

Longevity is essential to reduce waste. Adhesives that allow for easy repair or reassembly extend product life.

END-OF-LIFE MANAGEMENT

Adhesives must support recycling and disassembly to facilitate material recovery at the end of a product's life.

BIO-SOURCED MATERIALS

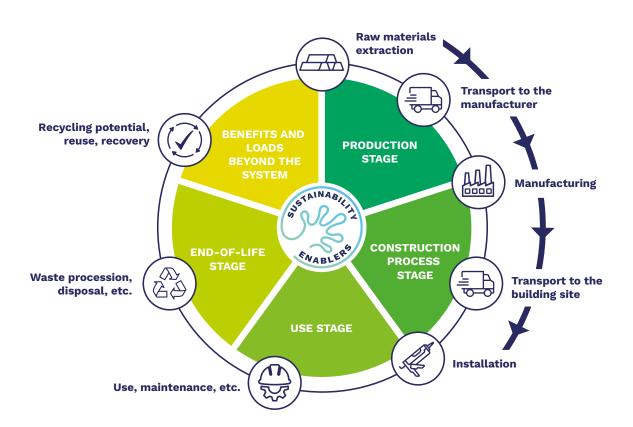
Adhesives derived from renewable sources help reduce dependency on petroleum-based materials.

FCO-DESIGN

Adhesives designed to minimise energy use during curing contribute to more sustainable manufacturing.

BOSTIK IN ACTION

Several Bostik products are bio-based adhesive solutions, helping our customers through their journey to CO₂ emissions reduction. A large part of our range has been developed to substitute solvent-based adhesive solutions with a lower carbon footprint and lower energy consumption, supporting manufacturers in achieving their sustainability and circular economy goals.



BOSTIK ENGINEERING ADHESIVES EA CHALLENGES



2 | Regulatory and compliance

Globally, regulations governing chemicals are becoming more stringent, driven regionally by regulations such as REACH (EU) and TSCA (US). Adhesives must meet evolving safety, health and environmental regulations while maintaining high performance.

KEY FOCUS AREAS

MULTIPLE REGULATORY UPDATES ANNUALLY

The industry faces various regulatory updates, requiring constant adaptation.

CERTIFICATIONS

Adhesives should meet certifications such as NSF (meets the public health and safety standards set by the National Sanitation Foundation) and UL (Underwriters Laboratories) fire safety ratings to ensure compliance across sectors.

BIOCOMPATIBILITY

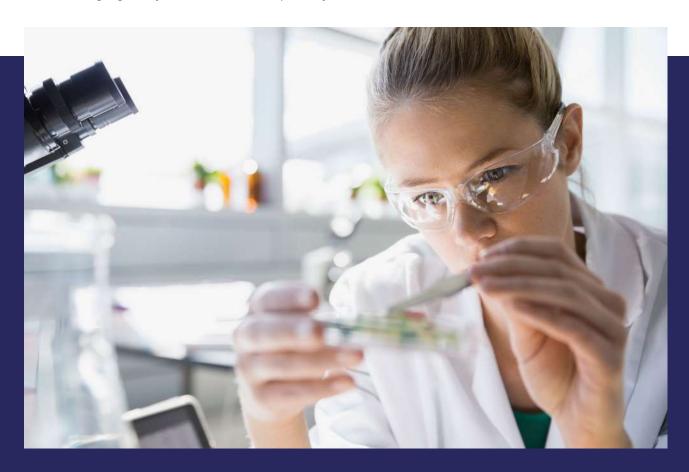
Adhesives involved in the assembly of certain medical devices should meet biocompatibility standards to prevent harm to users.

ETHICAL MANUFACTURING

Responsible sourcing and production processes are crucial to align with international guidelines.

BOSTIK IN ACTION

Many of **Bostik's medical-grade adhesives comply with ISO 10993**, ensuring safety in medical applications while meeting regulatory demands for biocompatibility.





3 Customer and market demands

Customer expectations are evolving, driven by trends in product customisation, hybrid materials and faster production cycles. Adhesives must support design flexibility and offer solutions that simplify application and improve final product quality.

KEY FOCUS AREAS

DIVERSITY OF SUBSTRATES

Adhesives must bond to a wide range of materials, from plastics to metals and composites.

USER-FRIENDLY PRODUCTS

Intuitive adhesive solutions that simplify application reduce errors and improve workflow efficiency.

TRAINING AND SUPPORT

Providing comprehensive user education helps ensure adhesives are applied correctly, maximising performance.

CUSTOMISATION

Adhesives must be tailored to meet unique product design and performance specifications.

SAFFTY

Adhesives must comply with local regulations which are often amended.

BOSTIK IN ACTION

Bostik's **Born2Bond™ Academy** offers end-user workshops and resources, ensuring manufacturers achieve optimal results in bonding applications. Learn more about the **Born2Bond™ Academy** on pages 130-131.











4 Performance and innovation

As products become more complex, adhesives must deliver enhanced performance, supporting multi-functional requirements such as conductivity, thermal management and vibration resistance.

KEY FOCUS AREAS

DUAL FUNCTIONALITY

Adhesives that combine bonding with thermal or electrical conductivity offer greater value.

CHEMICAL AND TEMPERATURE RESISTANCE

High-performance adhesives must withstand harsh environments without degradation.

PRECISION DISPENSING

Adhesives formulated for automated (and) jet dispensing improve accuracy and reduce material waste.

LOW SHRINKAGE

Adhesives that minimise shrinkage during curing enhance structural integrity, particularly in electronics and automotive applications.

BOSTIK IN ACTION

Born2Bond™ Light Lock adhesives offer dual curing capabilities, providing instant adhesion and secondary (UV) curing.







5 | Operational efficiency

To remain competitive, manufacturers must streamline production, reduce waste and enhance quality control. Adhesives play a key role in enabling faster processes and simplifying complex assembly lines.

KEY FOCUS AREAS

FASTER PRODUCTION CYCLES

Rapid-curing adhesives reduce downtime, increasing throughput.

FIRST-TIME ACCURACY

Adhesives that require minimal rework improve overall efficiency.

SUPPLY CHAIN RESILIENCE

Versatile adhesives that bond across multiple substrates reduce supply chain dependency.

PACKAGING AND WASTE REDUCTION

Innovative adhesive packaging minimises excess material and simplifies disposal.

BOSTIK IN ACTION

Bostik's **Thermelt**® **hot melt polyamide adhesives** and resins are designed for fast application and high throughput, enhancing operational efficiency in the automotive and appliance industries.









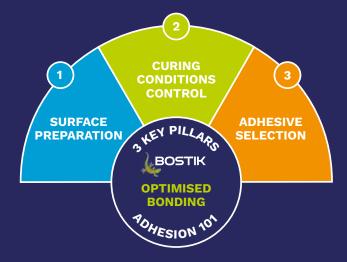


The fundamentals of reliable bonding

Adhesion 101:

Achieving durable, long-lasting bonded assemblies is more than just selecting the right adhesive.

A successful bond relies on three fundamental pillars: surface preparation, curing conditions and adhesive selection. Each of these elements plays a vital role in ensuring strong adhesion, preventing bond failure and optimising product performance across industries like automotive, aerospace, electronics and medical devices.



SURFACE PREPARATION

A well-prepared surface maximises adhesive contact and bond strength by removing contaminants and improving mechanical anchorage.

CURING CONDITIONS CONTROL

Controlled curing guarantees full polymerisation, ensuring the adhesive achieves its intended mechanical properties.

ADHESIVE SELECTION

Finally, choosing the right adhesive for the substrates, environmental conditions and load requirements is essential for durability and operational success.

Addressing these three core areas results in high-performance bonding solutions that withstand mechanical stress, environmental exposure and long-term wear.



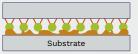
1 | Surface preparation

Surface preparation is the foundation of reliable bonding. A clean, well-prepared substrate ensures maximum adhesive performance by eliminating barriers that could prevent bonding. Contaminants such as oils, dust, sweat or oxides create a layer that inhibits adhesion, leading to bond failure over time. Proper preparation methods significantly enhance bond strength and durability.

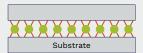


KEY METHODS OF SURFACE PREPARATION

DEGREASING AND CLEANING: Removes oils, dust and surface contaminants. Solvent cleaning is one of the most crucial steps, ensuring the substrate is free from residue before bonding.







Clean substrate

ABRASION (ROUGHENING): Increases surface roughness (rugosity) to enhance mechanical anchorage. Techniques include sanding, grit blasting and grinding. Rougher surfaces provide greater surface area, improving adhesive grip.



Smooth surface



Increase rugosity

= Mechanical
anchorage
improvement



Too rough surface

= Creation of
micro-bubbles

= Weak points



Bostik quick tip

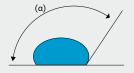
We recommend a substrate rugosity (Ra) between 0.8 and 3.2 (e.g. 120 to 400 grit sandpaper)

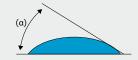


Always check the compatibility of the cleaning solvent with your substrate

SOLVENT CLEANING (POST-ABRASION): After abrasion, solvents remove any loose particles or debris left behind, ensuring the surface is clean and ready for bonding.

SURFACE TREATMENTS: Plasma, corona and flame treatments improve bonding by increasing surface energy, enhancing wetting properties for better adhesive distribution.





Bad wetting vs. Good wetting.

Bostik quick tip
We recommend a minimum
surface tension of 38 mN/m

DID YOU KNOW?

Untreated aluminium bonded with epoxy can achieve shear strengths of 3 MPa, but with proper acid etching and preparation, shear strength can reach more than 20 MPa – a six-fold increase!



2 | Curing conditions

Curing transforms adhesives from a liquid to a solid state through polymerisation, which is crucial for developing bond strength. Controlled curing ensures the adhesive reaches its full mechanical potential, preventing incomplete polymerisation, which can weaken the bond.

KEY FACTORS IN CURING CONDITIONS

1. TEMPERATURE

Higher temperatures accelerate curing, but too much heat can lead to shrinkage or thermal degradation. Monitoring and maintaining appropriate curing temperatures ensures consistent results.

2. HUMIDITY

28

Some adhesives, such as cyanoacrylates, are moisturesensitive and require precise humidity levels for optimal curing. Low humidity can slow down the process, while excessive moisture can weaken the bond.

3. UV IRRADIANCE (FOR UV-CURABLE ADHESIVES)

UV adhesives rely on exposure to specific wavelengths and intensities. Inconsistent UV exposure can lead to partial curing. Proper calibration of UV lamps ensures thorough curing.

4. MIXING RATIOS (FOR 2K ADHESIVES)

Two-component adhesives must be mixed at the correct ratios. Inaccurate mixing results in incomplete polymerisation and weaker bonds. Automated dispensing systems help maintain precision.

5. PRESSURE

Applying uniform pressure during curing ensures even adhesive distribution and optimal contact between surfaces.





SETTING THE STANDARD FOR ADHESIVE INNOVATION

By mastering surface preparation, curing processes and adhesive selection, engineers can create durable bonds that enhance product performance and longevity. Bostik's expertise in adhesive technology ensures solutions that address the unique challenges faced across industries, delivering reliable bonding results in even the most demanding environments.

If you want to develop the training and resources needed to build expertise using Bostik products through hands-on experience and in-depth technical learning, please consider our **Born2Bond™ Academy** training workshops. See pages 130-131.

ADHESION 101 BOSTIK ENGINEERING ADHESIVES



3 Adhesive selection

Selecting the right adhesive requires careful consideration of substrates, environmental conditions and mechanical loads. The adhesive must be compatible with the materials being bonded and able to withstand operational stresses such as vibration, thermal cycling and exposure to chemicals or UV light.



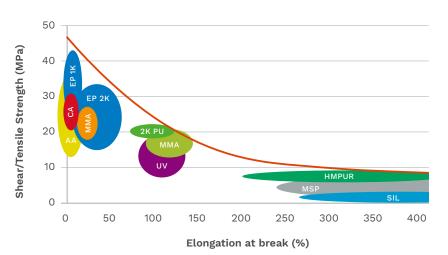
KEY FACTORS IN ADHESIVE SELECTION

1. DEFINITION OF THE ASSEMBLY

Consider the materials and design of the assembly. Substrate compatibility is essential – ensure the adhesive is formulated to bond plastics, metals or composites used in the project. Joint design, including bond line thickness and overlap, impacts the overall strength and longevity of the bond.

2. MECHANICAL CONSTRAINTS

Evaluate the mechanical properties required for the application. Factors like tensile strength, elongation and flexibility determine how well the adhesive handles stress, movement or vibrations. Adhesives must provide durability without cracking or degrading under mechanical loads.



AA = Anaerobic Adhesive

CA = Cyanoacrylate

EP 2K = Two Component Epoxy

EP 1K = Single Component Epoxy

MMA = Methyl Methacrylate (Standard)

2K PU = Two Component Polyurethane **MMA** = Methyl Methacrylate (Flexible)

UV = Ultra Violet

HMPUR = Hot Melt Polyurethane Reactive

MSP = Modified-Silyl Polymer

SIL = Silicone

3. ENVIRONMENTAL CONSTRAINTS

Assess the environmental conditions the bonded assembly will face. Adhesives must withstand extreme temperatures, humidity, chemical exposure or UV light without losing performance. Selecting adhesives with proven resistance to these factors ensures long-term reliability.

4. PROCESS LIMITATIONS

Understand the constraints of the manufacturing process. Consider the available dispensing equipment, curing times and production speed. Adhesives that require specific curing methods, such as UV or heat, must align with the capabilities of the production line. International standards, including certifications like ISO 10993 for medical devices or food safety standards, also play a role in adhesive selection.











BOSTIK ENGINEERING ADHESIVES





Prepare

ENSURING STRONG FOUNDATIONS FOR DURABLE BONDS

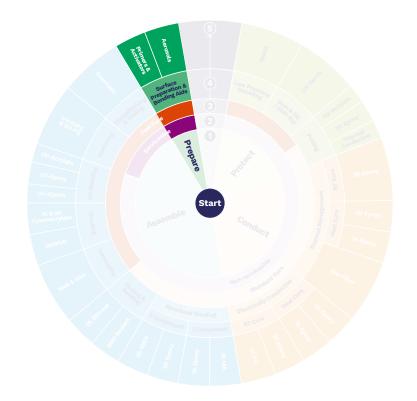
Proper surface preparation is essential for achieving high-quality bonding and durability. Removing contaminants, such as grease, dust and particles, is essential for effective chemical bonding, as their presence can severely impact the quality of the bonding line. In some cases, substrate preparation is also necessary to ensure an efficient assembly process. Factors like low surface energy and the pH of the surface must also be addressed to guarantee good wettability and proper adhesion.

The importance of cleaning and priming are sometimes underestimated, but they are vital for the overall quality and reliability of the assembly. Bostik has developed a wide range of solutions for degreasing, cleaning and preparing substrates, as well as accelerating curing, to enhance the performance of its adhesives.



The PREPARE section highlights innovative products and techniques that optimise substrate readiness, ensuring adhesives perform at their best. Explore solutions that simplify preparation while maximising bond strength and consistency.







Service **Products**

BORN2BOND™

PRE-BONDING CLEANER

Suitable for cleaning of all kinds of substrates prior to bonding. Solvent-based and supplied in aerosol form, it will easily remove grease, oil, lubricants and other contaminants without leaving any residue.

BORN2BOND™ 6-IN-1 LUBRICANT

Multi-purpose lubricant designed to keep moving parts operating correctly. It repels moisture, prevents corrosion and uses a capillary effect to penetrate rust making it perfect for general maintenance in workshops.

FEATURES

- · Fast evaporation
- · No residues
- Suitable for multiple substrates including sensitive plastics
- 360° valve spray system can be used at any angle

FEATURES

- · Lubricates moving parts
- Prevents seized parts
- Prevents corrosion
- Repels moisture
- Silences squeaky hinges
- Penetrates rust with capillary effect
- 360° valve spray system can be used at any angle

TYPICAL APPLICATIONS

• Metal and plastic parts, composite materials, flanges, bolts, shafts

TYPICAL APPLICATIONS

- · Servicing and general maintenance in workshops
- Lubrication of couplings and cables
- Removal of moisture from electronics





360° Valve



Fast Evaporation



Cleaning & Degreasing



Multisubstrate **Application**



TDS







360°



Capillary Effect to Penetrate Rust



Corrosion Prevention



Moisture Repelling



Multi-Purpose Lubricant



Prevents Seized Parts



Silencing Squeaky Hinges











Uses a thermal freeze shock effect to loosen rusted, corroded and seized parts within machinery – diffusing directly into rust by capillary force.

BORN2BOND™

ADHESIVE & GASKET REMOVER

Easy to apply and creates a foam-like layer, softening old gaskets and cured adhesives for removal within 15 minutes.

FEATURES

- Loosens rusted, corroded and seized parts by thermal freeze shock effect
- Diffuses directly into the rust by capillary force
- 360° valve spray system can be used at any angle

FEATURES

- Removes cured gaskets and adhesives within 15 minutes
- · Minimal damage to flanges and surfaces
- Suitable for multiple substrates
- 360° valve spray system can be used at any angle

TYPICAL APPLICATIONS

- · For the release of rusted and corroded parts
- Facilitates maintenance of seized components in tools, machines and vehicles

TYPICAL APPLICATIONS

• Cleaning of surfaces, flanges, gearboxes, metal housings, pumps





360° Valve



Capillary Effect to Penetrate in Parts



Release of Corroded Parts by Freeze Shock









360° Valve



Cleaning Residual Parts



Multisubstrate Application

Scan to access product TDS



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Always use glasses and gloves when applying adhesives.

Products only available in Europe.

BOSTIK ENGINEERING ADHESIVES AEROSOLS



Best-practice bonding

SUBSTRATE AND

SURFACE PREPARATION

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

- The surface should be cleaned with the appropriate cleaner to eliminate surface contaminants and increase wettability before applying the adhesives in order to achieve the best performance.
- For slightly oily surfaces, an oil tolerant product such as Born2Bond™ TA-43 and Born2Bond™ RA-03 can be used.
- For cleaning, we recommend Born2Bond™ Pre-Bonding Cleaner.

- · To remove cured product, we recommend Born2Bond™ Adhesive & Gasket Remover.
- Mechanical pretreatment (sanding, grinding, laser etching, etc.) will improve the performance, especially for retaining and gasketing applications.
- · The curing speed is dependent on material, temperature and gap size.
- · To improve the curing speed or shorten the fixture time, we recommend using Born2Bond™ Anaerobic Activator.

DESIGNING WITH ADHESIVES

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

- · 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 speed up curing time.
- · Joints must be designed based on the load the bondline will be exposed to. For higher loads, try to maximise the bonding area for increased strength.

Types of Stresses

- a: Compression
- b: Tension
- c: Shear

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- d: Peel e: Cleavage
- f: Torsional













INFLUENCES ON CURING SPEED

- · Temperature: The higher the temperature, the faster the adhesive will cure. Low temperatures will slow down the curing.
- Material: Anaerobic adhesives will cure best on "active" substrates like mild steel, aluminium and copper alloys. "Passive" substrates like stainless steel and chrome will slow down the curing.
- · Gap size: Smaller gaps will have a faster curing than bigger gaps.
- · Activator: The use of an activator such as Born2Bond™ Anaerobic Activator will speed up the curing and is recommended on passive materials or cold environments.

SERVICE PRODUCTS **BOSTIK ENGINEERING ADHESIVES**





500 mL cobra head aerosols.

All **Born2Bond**[™] aerosols are supplied in 500 mL spray cans with a cobra nozzle head for ease of application and improved access to difficult-to-reach areas.

- 1. 360° valve for use in every direction.
- 2. Easily switch from large area spraying to precise application, thanks to the thin plastic cannula.
- 3. Security tab prevents leakage and accidental misuse.
- 4. Single-handed ergonomic design.



What is wetting?

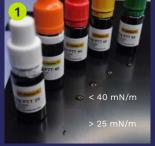
Wetting is the ability of a liquid to spread on a solid surface. It depends mainly on the surface energy of the solid. If the surface energy is inferior to 40 mN/m, the adhesive won't spread evenly and the solid will be considered unsuitable to bond. In this case, physical surface treatment (for example, plasma or corona treatment) or a Born2Bond** Primer will increase the surface energy and improve the adhesion. The surface energy can be easily measured by using calibrated inks.

Surface energy (a) < 40 mN/m = Bad wetting = Good wetting = Good wetting

Examples of surface energy measuring inks

- 1. In this example, the surface energy is between 25 and 40 mN/m, therefore the surface is difficult to bond. A surface treatment would be preferable.
- 2. Left half without treatment (< 25 mN/m).

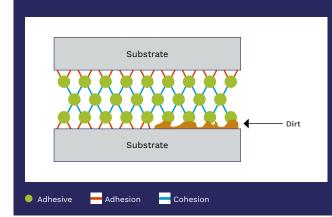
 Right half with nanoflame treatment (> 66 mN/m).

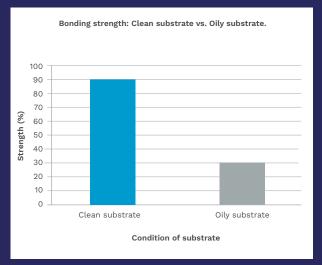




Why is cleaning important?

Oil and grease can make a barrier between the adhesive and the substrates, decreasing the mechanical bonding properties.







Service **Products**

BORN2BOND™

ANAEROBIC ACTIVATOR

Solvent-based product that accelerates and supports anaerobic adhesive curing on passive metals like stainless steel, chromated metals and zinc. It can also accelerate cure speed in larger gaps and increase bonding strength.

BORN2BOND™

PRIMER

Used to make polyolefin and other low surface energy substrates suitable for bonding with cyanoacrylate adhesives*. It is only recommended for difficult-to-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

- · Fast-evaporating with no residue
- Can be used at low temperatures (< 5 °C)
- · On-part lifetime of 30 days

FEATURES

- Improves adhesion to difficult-to-bond substrates
- · Specially formulated for the adhesion of low surface energy substrates
- Suitable for use with other cyanoacrylates
- Dries in seconds
- Increases adhesion strength
- · Certification: ISO10993-5

TYPICAL APPLICATIONS

- · Stainless steel bolts and shafts
- · Threadlocking, pipe sealing, gasketing and retaining

TYPICAL APPLICATIONS

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





Fast Bonding



Increases Curing Speed



Easy to use



Fast Evaporation



Multisubstrate **Application**







Multisubstrate **Application**



Fast Evaporation



Scan to product **TDS**



Anaerobic Activator available in Europe only.

^{*}Optimum results with Ultra LV, MV and Aquafast.







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.

BOSTIK CLEANER

Bostik Cleaner is a powerful preparation agent that is highly suitable for cleaning and degreasing substrates prior to bonding.

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

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

TYPICAL APPLICATIONS

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

TYPICAL APPLICATIONS

• Cleaning and degreasing of a variety of substrates





Increase curing speed



Easy to use



Fast Evaporation









Cleaning & Degreasing



Fast Evaporation



Multisubstrate Application

Scan to access product TDS



Always use glasses and gloves when applying adhesives.

Bostik Cleaner available in Europe only.



PRODUCT RANGES INCLUDED WITHIN BOSTIK ASSEMBLE

Anaerobic	40
UV-CIPG & UV-FG	50
UV-Acrylate	54
UV-Cyanoacrylate	64
1K & 2K Cyanoacrylate	68
High Performance HMPUR	76
Web & Film	80
2K Silicone	84
SMP Sealant	88
2K MMA	92
2K Epoxy	96
1K MA/1K Epoxy	100







Assemble

MEETING THE CHALLENGES OF MODERN MANUFACTURING

Designers and manufacturers face growing challenges in production. They need to achieve Right First Time (RFT) durable bonds with increasingly complex and diverse materials. This includes integrating mechanical and chemical fasteners as well as ensuring components can withstand greater mechanical stress and harsh environments. Bostik's innovative assembly adhesives tackle these pain points while addressing ever-evolving industry legislation and sustainability demands.



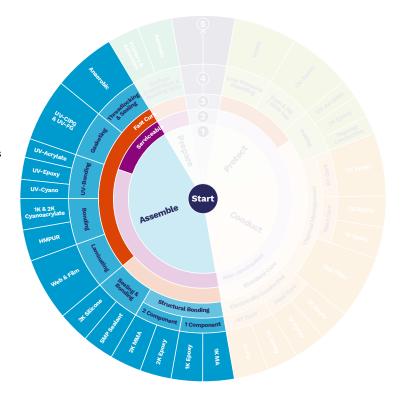




The ASSEMBLE section features solutions tailored for industries such as automotive, aerospace and electronics, offering a wide range of innovative adhesive technologies that enhance product durability and streamline manufacturing processes.

Our range not only provides adhesives designed to deliver improved performance, including speed and ease of use, but products that truly stand out from competitors when it comes to safety and sustainability.











Anaerobic

Born2Bond™ Anaerobic Adhesives offer high-performance solutions for fastening and sealing applications such as threadlocking, pipe sealing, gasketing and retaining. Designed with workplace safety and environmental sustainability in mind, selected grades are NSF-certified, providing a reliable alternative to traditional mechanical fixings.







BOSTIK ENGINEERING ADHESIVES ANAEROBIC 41



Threadlocking



ONE-STOP SOLUTIONS FOR ALL THREADLOCKING REQUIREMENTS

Single-component, one-stop solutions for all threadlocking requirements, including preventative maintenance.

Eliminating the cost and inconvenience of holding extensive inventory, these liquid adhesives fill and seal all voids to achieve a cohesive connection of metal parts that remains fixed even when subjected to extreme vibrations, temperatures or chemical substances.





Multiple Strengths



Tolerant



Up To 180 °C





Corrosion Prevention

FEATURES

- 100% connection no loosening
- Evenly distribute force
- · Vibration resistant
- Corrosion prevention
- · Variety of viscosities and strengths
- Suitable for active and passive metals

TYPICAL APPLICATIONS

- · Screws and bolts
- Mechanical parts assembly
- Machine engineering
- · Gear manufacturing
- Engines and powertrains



FOCUSED ON PERFORMANCE

Born2Bond™ Threadlocking Anaerobic Adhesives maintain a secure hold under vibration and temperature changes. They effectively seal threads and resist corrosion, extending the lifespan of assemblies. Additionally, they simplify inventory needs and offer a cost-effective solution, making them a superior choice for various applications. A single TA (threadlocking adhesive) can replace a large inventory of mechanical fasteners.

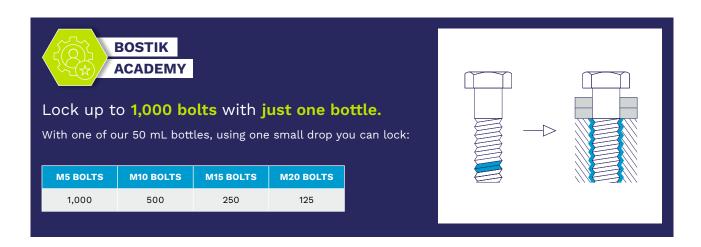


BORN2BOND™ THREADLOCKING RANGE

The list of features in the following tables will help you identify which products best match your needs.

STANDARD GRADES	TA-22	TA-43	TA-70	TA-90
BASE	Anaerobic acrylic adhesive			
VISCOSITY	900 to 1,500 mPa·s	2,500 to 3,000 mPa·s	400 to 600 mPa·s	20 to 55 mPa·s
FIXTURE TIME	20 min	<15 min	10 min	7 min
BREAKAWAY STRENGTH ON STEEL (ISO 10964) UNSEATED	9 Nm	15 Nm	18 Nm	6 Nm
COLOUR	Purple Blue Green (UV fluorescence)		uorescence)	
TEMPERATURE RANGE	-55 to 150 °C		-55 to 180 °C	-55 to 210 °C
CERTIFICATIONS	NSF S6			-
PACKAGING	Bottles: 50 mL and 250 mL			

WL GRADES	TA-WL * LOW STRENGTH	TA-WL * MEDIUM STRENGTH	TA-WL * HIGH STRENGTH
BASE	Anaerobic acrylic adhesive		
VISCOSITY	900 to 1,500 mPa·s	2,000 to 3,000 mPa·s	350 to 550 mPa·s
FIXTURE TIME	<30 min	20 min	10 min
BREAKAWAY STRENGTH ON STEEL (ISO 10964) UNSEATED	3 Nm	10 Nm	20 Nm
COLOUR	Purple (UV fluorescence)	Blue (UV fluorescence)	Green (UV fluorescence)
TEMPERATURE RANGE	-55 to 150 °C -55 to 210 °C		-55 to 210 °C
CERTIFICATIONS	-	NSF S6	-
PACKAGING	Bottles: 50 mL and 250 mL		



TDS and SDS available at born2bond.bostik.com

*Available in selected regions only. Not classified as a hazardous mixture according to CLP Regulation (EC) 1272/2008 in EU. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES ANAEROBIC 43



Pipe Sealing



SOLUTIONS FOR ALL TYPES OF

THREADED METAL PIPES AND FITTINGS

Reliable and adaptable solutions, suitable for all types of threaded metal pipes and fittings and both new installations and preventative maintenance.

Filling and sealing all voids, these single component adhesives provide 100% surface-to-surface contact, achieving a cohesive, durable connection that will not fail even when subjected to vibration, extreme temperatures or chemical substances. A convenient, cost-effective alternative to conventional sealing alternatives like hemp or PTFE tapes, these adhesives eliminate the need for additional inventory.





Multiple Strengths



Up To 180 °C



Multiple Viscosities





Sealing

FEATURES

- 100% connection no loosening
- Vibration resistant
- · Corrosion prevention
- Single component
- · Variety of viscosities and strengths
- Suitable for active and passive metals
- · Prevents leakages

TYPICAL APPLICATIONS

- · Metal pipes and fittings
- Engines and powertrains
- · Pumps and compressors
- Liquid and gas storage
- · Hydraulic systems

FOCUSED ON PERFORMANCE



Born2Bond™ Pipe Sealing Anaerobic Adhesives save MRO operatives time compared to using PTFE tape or hemp due to ease of application, instant sealing and durable results. These adhesives are applied directly to threads, cure immediately and provide a reliable seal resistant to vibrations, high temperatures and chemicals. This efficiency reduces the need for rework or maintenance, making them an improved time-saving option for pipe sealing applications.



BORN2BOND™ PIPE SEALING RANGE

The list of features in the following tables will help you identify which products best match your needs.

STANDARD GRADES	PA-77	PA-42	
BASE	Anaerobic acrylic adhesive		
VISCOSITY	80,000 to 90,000 mPa·s	400 to 800 mPa·s	
FIXTURE TIME	60 min	10 to 20 min	
BREAKAWAY STRENGTH ON STEEL (ISO 10964) LOOSE	10 Nm	16 Nm	
COLOUR	Yellow (UV fluorescence)	Brown (UV fluorescence)	
TEMPERATURE RANGE	-55 to 180 °C	-55 to 150 °C	
CERTIFICATIONS	NSF S2, DVGW, WRAS	-	
PACKAGING	Accordion bottle: 50 mL, Tube: 250 mL	Bottles: 50 mL and 250 mL	

WL GRADES	PA-WL* LOW STRENGTH	
BASE	Anaerobic acrylic adhesive	
VISCOSITY	100,000 to 200,000 mPa·s	
FIXTURE TIME	30 min	
BREAKAWAY STRENGTH ON STEEL (ISO 10964) LOOSE	3 Nm	
COLOUR	Yellow (UV fluorescence)	
TEMPERATURE RANGE	-55 to 180 °C	
CERTIFICATIONS	NSF S2, DVGW, WRAS	
PACKAGING	Accordion bottle: 50 mL, Tube: 250 mL	



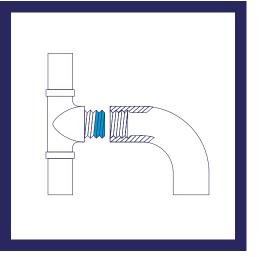
ring of pipe sealant to the male part of a pipe, you can seal:

500 pipes (1/4 nozzle turn)

300 pipes (3/4 nozzle turn)

400 pipes (1/2 nozzle turn)

200 pipes (1 full nozzle turn)



TDS and SDS available at born2bond.bostik.com

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BOSTIK ENGINEERING ADHESIVES ANAEROBIC 45



Gasketing



FLEXIBLE AND DURABLE ALTERNATIVES TO PRE-FORMED GASKETS

Single-component, cost-effective alternative to conventional pre-formed gaskets on metal flanges. Flexible, durable and resistant to wear and tear, they can be used during installation or for preventative maintenance.

Achieving 100% surface-to-surface contact, the adhesives create a cohesive, durable connection that can withstand vibration, extreme temperatures and exposure to oils, solvents and water. They also offer better stress distribution and, unlike traditional gaskets, do not require any 'bedding-in'.





Multiple Strengths



Up To 230 °C



Multiple Viscosities





Sealing

FEATURES

- Outstanding fatigue strength
- Vibration resistant
- Corrosion prevention
- · Prevents sagging and micro-movement
- · Variety of viscosities and strengths
- · Instant and flexible seal options
- · Suitable for active and passive metals
- Suitable for metals with different thermal expansion coefficients

TYPICAL APPLICATIONS

- Flange connections
- Oil sump sealing
- Engines and powertrains
- Pumps and compressors
- Storage of liquids and gas
- · Gearboxes and transmissions

FOCUSED ON PERFORMANCE



Born2Bond™ Gasketing Anaerobic Adhesives can help reduce typical MRO inventory by up to 90%. This product can replace multiple conventional pre-formed gaskets with a single-component solution that can be used for various applications. This versatility means that there is **no need to** stock a wide range of gasket sizes and types, significantly cutting down on storage requirements and increasing the likelihood of successful repair and maintenance without the need to order unique parts.



BORN2BOND™ GASKETING RANGE

The list of features in the following tables will help you identify which products best match your needs.

STANDARD GRADES	GA-74	GA-18	GA-10
BASE	Anaerobic acrylic adhesive		
VISCOSITY	30,000 to 50,000 mPa·s	200,000 to 800,000 mPa·s	40,000 to 140,000 mPa·s
FIXTURE TIME	15 to 30 min	<12 h	
TENSILE SHEAR STRENGTH ON STEEL (ISO 4587)	9 N/mm²	8 N/mm²	3 N/mm²
COLOUR	Orange (UV fluorescence)	Red (UV fluorescence)	Pink (UV fluorescence)
TEMPERATURE RANGE	-55 to 150 °C	-55 to 180 °C	-55 to 230 °C
CERTIFICATIONS	-	NSF S2	-
PACKAGING	Accordion bottle: 50 mL, Tube: 250 mL	Accordion bottle: 50 mL, Cartridge: 300 mL	Accordion bottle: 50 mL, Tube: 250 mL

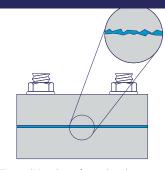
WL GRADES	GA-WL * INSTANT GASKET	GA-WL* FLEXIBLE GASKET	
BASE	Anaerobic acrylic adhesive		
VISCOSITY	30,000 to 100,000 mPa·s	60,000 to 100,000 mPa·s	
FIXTURE TIME	45 min	40 min	
TENSILE SHEAR STRENGTH ON STEEL (ISO 4587)	6 N/mm²	8 N/mm²	
COLOUR	Orange (UV fluorescence)	Red (UV fluorescence)	
TEMPERATURE RANGE	-55 to 230 °C		
CERTIFICATIONS	-		
PACKAGING	Accordion bottle: 50 mL, Tube: 250 mL Syringe: 50 mL, Tube: 250		



Seal up to 7 linear metres of gasket with just one bottle.

With one of our 50 mL accordions, you can seal the following gasket lengths:

- Nozzle fully open: up to 2 linear metres.
- Nozzle partially open: up to 7 linear metres.



Unlike traditional pre-formed gaskets, anaerobic adhesives will completely fill all spaces (despite substrate rugosity), achieving 100% cohesion, greater structural rigidity and will withstand higher power transmissions and pressures.

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TDS and SDS available at born2bond.bostik.com

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BOSTIK ENGINEERING ADHESIVES ANAEROBIC



Retaining



SINGLE-COMPONENT BONDING SOLUTIONS

FOR CYLINDRICAL ASSEMBLIES

Cost effective, adaptable alternative or addition to mechanical retaining processes. Capable of bonding all types of cylindrical assemblies, these single-component solutions also seal all metal joints to eliminate the risk of fretting corrosion.

They achieve 100% surface-to-surface contact, producing a cohesive, durable connection capable of withstanding vibration, extreme temperatures and chemical substances.





Multiple Strengths



Tolerant



Up To 180 °C



Multiple Viscosities



Fluorescent

FEATURES

- · High power transmission
- Resistance to dynamic loads
- · Vibration resistant
- Corrosion prevention
- · Variety of viscosities and strengths
- Suitable for active and passive metals

TYPICAL APPLICATIONS

- · Bearing assembly
- Gear manufacturing
- · Machine engineering
- Drive shafts
- Conveyor belts
- Centrifuges
- Turbines



SUSTAINABILITY ENABLER

The Born2Bond™ WL (White Label) Anaerobic range has been designed to uphold high standards. This range is classified as **not hazardous** according to EU regulation (EC) 1272/2008 (CLP) and **simplifies EHS** assessments without compromising performance. These solutions can be **safer for users** than alternatives which are classified as hazardous according to EU regulation (EC) 1272/2008 (CLP).



BORN2BOND™ RETAINING RANGE

The list of features in the following tables will help you identify which products best match your needs.

STANDARD GRADES	RA-38	RA-03	RA-20	RA-41	RA-48	RA-60
BASE		Anaerobic acrylic adhesive				
VISCOSITY	2,000 to 3,000 mPa·s	100 to 150 mPa·s	5,000 to 12,000 mPa·s	400 to 800 mPa·s	400 to 600 mPa·s	Paste
FIXTURE TIME	10 min 15 min 60 min		20 to 30 min	10 to 15 min		
COMPRESSIVE SHEAR STRENGTH ON STEEL (ISO 10123)	16 N/mm² 7 N/mm²		8 N/mm²	5 N/mm²	4 N/mm²	
COLOUR	Gree	Green (UV fluorescence) Yellow (UV fluorescence) fluorescence			,	Grey (UV fluorescence)
TEMPERATURE RANGE	-55 to 180 °C -55 to 230 °C		-55 to 150 °C	-55 to 180 °C	-55 to 150 °C	
CERTIFICATIONS	NSF S5 –			NSF S5		
CERTIFICATIONS	Bottles: 50 mL and 250 mL			Accordion bottle: 50 mL		

WL GRADES	RA-WL*
BASE	Anaerobic acrylic adhesive
VISCOSITY	350 to 550 mPa·s
FIXTURE TIME	< 30 min
COMPRESSIVE SHEAR STRENGTH ON STEEL (ISO 10123)	5 N/mm²
COLOUR	Green (UV fluorescence)
TEMPERATURE RANGE	-55 to 180 °C
CERTIFICATIONS	-
PACKAGING	Bottles: 50 mL and 250 mL



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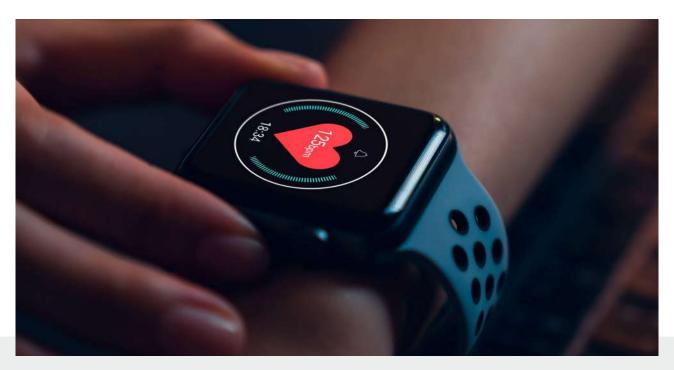
BOSTIK ENGINEERING ADHESIVES ANAEROBIC 49





UV-CIPG & UV-FG

Born2Bond™ UV-CIPG (Cure-In-Place Gasket) and UV-FG (Foam Gasket) offer precise and reliable sealing solutions for today's manufacturing. These UV-curable adhesives ensure rapid curing, strong durability and resistance to high temperatures, humidity and chemicals. Perfect for automotive electronics, sensors and advanced assemblies, they enhance efficiency while maintaining product performance and flexibility.







BOSTIK ENGINEERING ADHESIVES

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UV-CIPG & UV-FG



ADDRESSING THE CHALLENGES ASSOCIATED

WITH TRADITIONAL GASKETS

AU589V is a single-component, light-cure gasket material based on acryl acrylate. It has excellent flexibility and toughness to apply as a water/dustproof gasket.

This product is supplied in viscous paste form and can be dispensed by semi- or fully automated systems such as air, mechanical and jet valve. Its ability to cure within seconds after light exposure allows faster processing, higher productivity, lower material cost resulting overall in lower production costs.





Flexible & Elastic



Precision



UV Curing



Waterproof



Multiple Viscosities



Serviceable

FEATURES

- Single component
- Extremely flexible and tough
- No cracking under compression or deformation
- · Cures immediately with UV light

TYPICAL APPLICATIONS

- Automotive related components (ECUs, sensors, cameras, ADAS etc.)
- Cameras and wearable electronics
- · Replacement of O-rings
- Complex gaskets on flat surfaces or shallow grooves

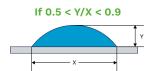


Ensuring a waterproof gasket seal.

Gasket sealing capability is directly linked to the bead height-to-width ratio.

If Y/X < 0.5

If the gasket height is too low, it cannot be compressed and therefore will not result in a waterproof seal.



If the gasket height is maintained, it can be compressed, resulting in good component waterproofing.

TOCUSTO ON PERFORM

FOCUSED ON PERFORMANCE

Born2Bond™ UV Gasketing solutions offer enhanced product serviceability with on-demand sealing, eliminating the need to pre-produce rubber-moulded gaskets. This approach increases sealing capabilities, reduces labour intensity and supports the trend to reduce the number of SKUs, in turn reducing the amount of inventory stock space required.



BORN2BOND™ UV-CIPG & UV-FG RANGE

The list of features in the following tables will help you identify which products best match your needs.

UV-CIPG (Cure-In-Place Gasket)		AU589V	AU060RRB	
BEFORE CURE				
VISCOSITY	@0.5 rpm (mPa·s)	788,000	400,000	
@25 °C	@5 rpm (mPa·s)	153,600	65,000	
THIXOTROPIC INDEX	((Vis 0.5 rpm/5 rpm)	5.1	6.1	
COLOUR		Colour change after curing unde	er UV light (Purple > Dark green)	
AFTER CURE (metal hal	lide lamp (UV-A: 4,000 m	J/cm²))		
HARDNESS	Shore A	12	34	
@23 °C	Shore 00	63	-	
FILM PROPERTIES	Strength (MPa)	0.8	5.3	
@23 °C	Elongation (%)	480	600	
COMPRESSION	25% compression (%)	-	4	
SET * (70 °C, 22 h)	50% compression (%)	6	5	
COMPRESSION SET* (125 °C, 24 h)	50% compression (%)	8	11	
DUDABILITY	85 °C 95%RH	1,00	00 h	
DURABILITY	120 °C	2,000 h	-	
APPLICATION TEMPERATURE		-40 to	120 °C	
PACKAGING		Syringe: 50 g Cartridges: 180 g and 360 g	Syringe: 40 g Cartridges: 160 g and 320 g	

UV-FG (Foam Gaske	t)	AU003	
APPEARANCE		Light brown to brown	
CHEMICAL TYPE		Urethane acrylate	
DENSITY @23 °C		1.1 g/cm³	
VISCOSITY @50 °C		14,000 mPa·s	
HARDNESS @23 °C	(SHORE 00)	25	
ELONGATION AT BE	REAK @23 °C	700%	
TENSILE STRENGT	H @23 °C	140 kPa	
COMPRESSION	50% comp., 23 °C, 24 h	5%	
SET	50% comp., 80 °C, 24 h	36%	
FOAM RATIO @23 °	С	60%	
PACKAGING		Pail: 4 kg	

 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*ASTM D395 or JIS K6262.

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES









UV-Acrylate

Thanks to the recent acquisition of Polytec PT – and Bostik's backward integration in acrylic monomers – we have developed an extensive portfolio of advanced, high-performing technologies designed to tackle the constantly evolving challenges of even more flexible and durable materials.

The UV-Acrylate range is a core technology for Bostik, enabling precise bonding and durability under the most demanding conditions. **Born2Bond™** and **Polytec PT** UV-Acrylates meet these challenges with advanced solutions offering low shrinkage, transparency and resistance to impact, chemicals and temperature. Ideal for electronics, luxury goods and automotive applications, these adhesives deliver robust performance, reliability and ease of use without compromising critical aesthetics.







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BOSTIK ENGINEERING ADHESIVES UV-ACRYLATE



UV-Acrylate General use





IMPROVE AESTHETICS, DURABILITY AND THROUGHPUT

Highly durable, transparent when cured and easy to manage. Can be used with metals, glass and plastics, including ABS and PMMA.

The range can be dispensed using a wide variety of equipment and methods. Patented Nanostrength® technology developed by Bostik's parent company, Arkema.





Lasting



Filling



No Cracks



Transparent



Resistant



Fast Curing

FEATURES

- Highly durable impact, chemical and temperature resistant
- Wide UV wavelength range (365 to 405 nm)
- High elongation
- · Compatible with various dispensing equipment

TYPICAL APPLICATIONS

- · Luxury goods
- Electronics
- Automotive
- · General assembly

FOCUSED ON PERFORMANCE



Bostik's UV-Acrylate products show long durability. They embrace the benefits of solvent-free UV technology, which not only saves space but also reduces infrastructure needs. We've chosen cutting-edge LED technology for our light source, ensuring efficiency and reliability. Leveraging our vertical integration with the Arkema group, we have formulated our product incorporating the latest advancements in photoinitiators and monomers.



BORN2BOND™ & POLYTEC PT UV-ACRYLATE GENERAL USE RANGE

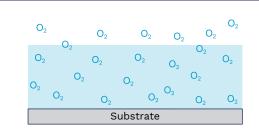
The list of features in the following tables will help you identify which products best match your needs.

	LC 2100 GEL	LC 177 GEL	
VISCOSITY	Available in various viscosities		
ELONGATION	250 to 290%	170 to 180%	
TENSILE STRENGTH	25 to 30 MPa	9 to 11 MPa	
LAP SHEAR STRENGTH - PMMA	5 MPa	7 MPa	
LAP SHEAR STRENGTH - PC	14 MPa	5 MPa	
HARDNESS (SHORE)	45 to 50 D	20 to 35 D	
WATER ABSORPTION	2.5%	1%	
FIXTURE TIME LED 405 nm (500 mW/cm²)*	1 sec	6 sec	
MATERIALS	PC, ABS, FR4, Aluminium, Stainless Steel, Glass	PMMA, ABS, Aluminium, Stainless Steel, Glass	
PACKAGING	Cartridges: 30 cc and 600 cc		



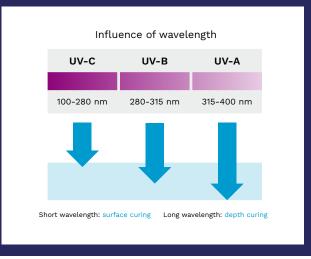
Why UV-acrylic adhesives can remain tacky once cured.

UV acrylic adhesives cure by radical polymerisation. The contact with oxygen (O_2) inhibits the reaction, which is why when cured by UV, the adhesive part that remains in contact with air does not fully cure and remains tacky.



How to get a **tack-free cure** product.

To get a tack-free surface, we can combine both UV-A (low energy but in-depth polymerisation) and UV-C (more powerful, but no penetration in adhesives and only surface curing).



TDS and SDS available at born2bond.bostik.com

*Measured with UV Meter LEDCure L-405. Some specific materials might be more challenging to bond than others, please consult our technical support for guidance. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-ACRYLATE | 57



UV-Acrylate Plastic bonding



ADVANCED UV-ACRYLATE FOR PLASTIC BONDING

Polytec PT UV 2181-1 is a cutting-edge, single-component UV-acrylate/methacrylate hybrid adhesive designed for precise plastic bonding.

With solvent-free, UV/VIS-curing properties, it offers excellent elongation, impact resistance and on-demand curing. Perfect for medical devices, displays and electronics, this adhesive ensures superior performance and versatility for high-precision bonding applications.





) Resistant



Gap Filling



Fast Curing



FEATURES

- Very fast cure on demand (UV/VIS)
- Multiple viscosities
- Very good adhesion to thermoplastic substrates
- · Impact resistant

TYPICAL APPLICATIONS

- · Display Bonding
- Electronics
- Plastic film lamination (high peel strength)
- Medical devices

FOCUSED ON PERFORMANCE



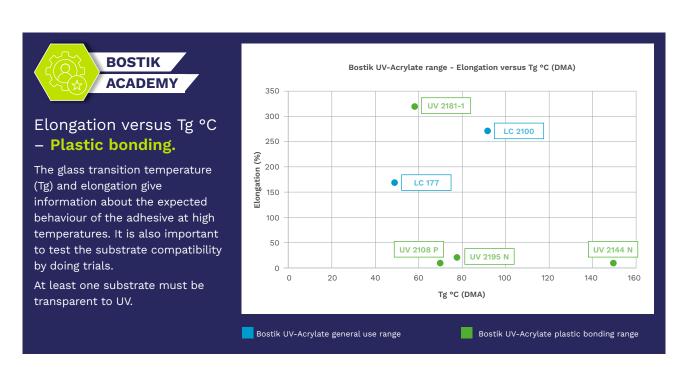
Bostik's product range is designed to bond both similar and dissimilar substrates, including low surface energy materials, with appropriate surface treatments like plasma or primers. When it comes to bonding plastics or dissimilar substrates, we often need to fine-tune our approach or create innovative formulations. This is especially true for the increasingly popular composites and fibreglass materials, which typically require specialised formulations. With our expertise in polymer science, Bostik and Arkema are perfectly equipped to deliver tailored solutions that meet the evolving needs of our customers.



BORN2BOND™ & POLYTEC PT UV-ACRYLATE PLASTIC BONDING RANGE

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

	UV 2181-1	UV 2108 P	UV 2195 N	UV 2144 N
CHEMICAL BASE	Methacrylate/acrylate		Hybrid system	Methacrylate/acrylate
CURING		UV/V	isible	
APPEARANCE	Transparent	Transparent, fluorescent	Slightly yellow, transparent	Transparent
VISCOSITY @23 °C	300 to 1,200 mPa·s	140 to 250 mPa·s	6,100 mPa·s	8,000 to 10,000 mPa·s
THIXOTROPY	Yes		No	
FLEXIBILITY	Yes		No	
SHORE HARDNESS*	D 53	D 84	D 78	D 85
SUBSTRATE COMPATIBILITY	Universal [‡]		Difficult-to-bond plastics (e.g. PA, PBT, PPS, LCP)	Plastics
CERTIFICATIONS	ISO 10993-5			_
PACKAGING	Cartridge: 30 g	Cartridge: 30 g Bottle: 1 kg	Cartrid	ge: 30 g



TDS and SDS available at born2bond.bostik.com

*Shore hardness with dual curing. *Some specific materials might be more challenging to bond than others, please consult our technical support for guidance.

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-ACRYLATE | 59



UV-Acrylate Glass and metal bonding

🍂 Polytec PT

SUPERIOR UV-ACRYLATE FOR GLASS AND METAL BONDING

Polytec PT UV 1306 delivers outstanding adhesion for glass, metal and plastic components.

This single-component UV-acrylate/methacrylate hybrid adhesive offers up to 250% elongation, high impact and moisture resistance and on-demand curing. Ideal for digital cameras, lenses and optical devices, it ensures durable and reliable performance in demanding applications.





Resistant



Filling



Fast Curing



FEATURES

- · Highly transparent
- Multiple viscosities
- · Impact resistant
- · Temperature shock resistant

TYPICAL APPLICATIONS

- Digital cameras
- Lenses
- Structural glass bonding
- Luxury packaging
- White goods
- Active alignment



FOCUSED ON PERFORMANCE

Bostik's products address designers' needs for transparency, structural bonding, shock absorption or dimensional stability. By employing high power LEDs as a light source, low temperature load and low stress on the substrate is achieved. They are compatible with both automatic and non-automatic dispensing systems.

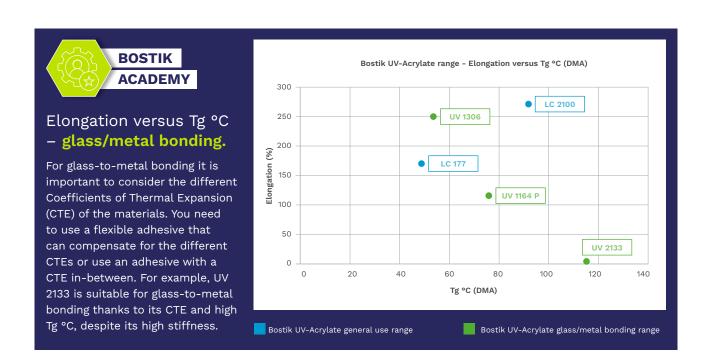
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BORN2BOND™ & POLYTEC PT UV-ACRYLATE GLASS AND METAL BONDING RANGE

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

	UV 1306	UV 2133	UV 1164 P	
CHEMICAL BASE	Hybrid system		Methacrylate/acrylate	
CURING	UV/Vis		isible	
APPEARANCE	Highly transparent, clear	Grey	Transparent	
VISCOSITY @23 °C	150 to 200 mPa·s	40,000 to 50,000 mPa·s	1,800 to 2,200 mPa·s	
THIXOTROPY	No	Yes	No	
FLEXIBILITY	Yes	No	Yes	
SHORE HARDNESS	D 62	D 80	D 78	
SUBSTRATE COMPATIBILITY		Glass & Metal		
PACKAGING	Cartridge: 30 g	Cartridges: 10 cc (15 g) and 30 cc (55 g)	Cartridge: 30 g	



TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-ACRYLATE | 61



UV-Acrylate Dual cure



INNOVATIVE DUAL-CURE UV-ACRYLATE ADHESIVE

Polytec PT DC 2307 combines UV and thermal curing for superior adhesion across diverse substrates.

With a strength/elongation balance, advanced toughening technology and excellent water resistance, it's ideal for protecting sensitive electrical components, pin sealing and sensor potting, ensuring exceptional durability in challenging environments.





Light & Secondary (Dual) Cure



Gap Filling



Fast Curing





FEATURES

- Very fast cure on demand (UV/VIS)
- · Secondary curing mechanism
- Innovative toughening technology
- Very good water resistance

TYPICAL APPLICATIONS

- · Protection of sensitive electrical parts
- Pin-sealing
- Sensor potting (e.g. small switches)



FOCUSED ON PERFORMANCE

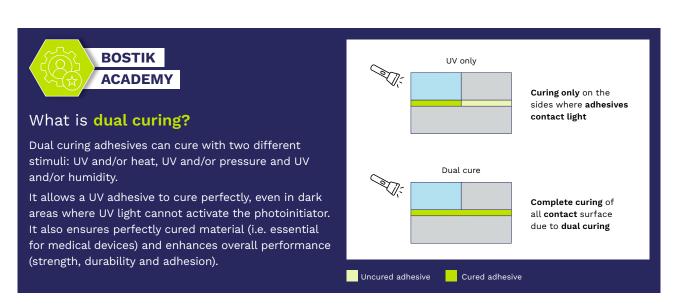
Polytec PT dual curing adhesives combine UV-curing with secondary curing mechanisms such as heat or moisture, making them **ideal for complex bonding** applications. Primary curing enables **immediate handling strength** upon UV exposure, **reducing assembly time**, while secondary mechanism allows curing in shadow areas of the adhesive.



BORN2BOND™ & POLYTEC PT UV-ACRYLATE DUAL CURE RANGE

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

	DC 2307	DC 7042-VC	DC 7508 LV
CHEMICAL BASE	Methacrylate/acrylate	Hybrid system	
CURING	UV/Visible/Thermal	UV/Visible/Humidity	UV + Moisture
APPEARANCE	Transparent, fluorescent	Blue-green, fluorescent	Opaque, fluorescent
VISCOSITY @23 °C	2,000 to 3,000 mPa·s	2,000 to 6,000 mPa·s	1,400 mPa·s
THIXOTROPY	No	Ye	es
FLEXIBILITY	Yes No		0
SHORE HARDNESS	D 44	D 75*	D 77*
SUBSTRATE COMPATIBILITY		Universal‡	
PACKAGING	Cartridge: 30 g		Cartridges: 30 g and 500 cc (600 g)



TDS and SDS available at born2bond.bostik.com

*Shore hardness with dual curing. *Some specific materials might be more challenging to bond than others, please consult our technical support for guidance.

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-ACRYLATE | 63

UV-CYANOACRYLATE

BOSTIK BORNZBOND™ UV-CYANOACRYLATE

Light Lock range







UV-Cyanoacrylate

Bonding complex assemblies, achieving rapid curing and ensuring durability under demanding conditions are critical challenges when designing and manufacturing advanced and innovative products.

Born2Bond™ UV-Cyanoacrylates offer a patented dual-cure solution that combines instant bonding with UV light curing. These adhesives deliver precise application, increased flexibility, fast bonding and dependable performance across various substrates, making them essential for enhancing production efficiency and product quality. Our methoxyethyl cyanoacrylate and unique photoinitiator sets us apart in the industry.







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BOSTIK ENGINEERING ADHESIVES UV-CYANOACRYLATE



Light Lock



DUAL CURE (LIGHT AND SURFACE CURING) CYANOACRYLATES

Patented[†], low-odour, 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 products' instant bonding capability ensures cure between opaque substrates (contact cure).





Light & Surface (Dual) Cure



Low Bloom



Gap Filling





Fast Bonding



FEATURES

- · Dual cure formulation: instant and photo-cure
- Fixture time of 60 seconds without light exposure and 3 seconds with light curing*
- · Can be cured with visible and UV-LED light
- · Dry to touch, tack free surface cure
- Cure-on-demand of excess material released from bondlines
- · Low odour, low blooming
- Available in a range of viscosities

TYPICAL APPLICATIONS

- · Conformal coating
- Encapsulation
- · Electronics and audio assembly
- Luxury goods
- · Medical devices



STAINABILITY OF TAINABILITY TO ABLERS

SUSTAINABILITY ENABLER

Bostik's innovative products range feature dual curing capabilities. They are classified as not hazardous according to EU regulation (EC) 1272/2008 (CLP). The low odour design offers superior comfort during use and full curing is achieved without the need for an activator.

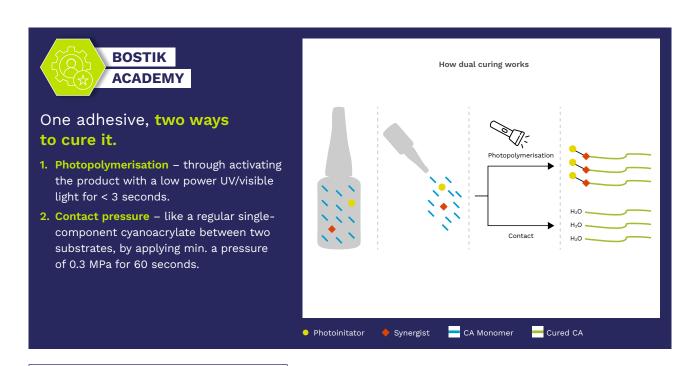
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BORN2BOND™ LIGHT LOCK RANGE

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

	LIGHT LOCK LV	LIGHT LOCK MV	LIGHT LOCK HV	LIGHT LOCK GEL	LIGHT LOCK 30X
BASE	Light-curing Methoxyethyl Cyanoacrylate				
VISCOSITY	5 to 20 mPa·s	150 to 220 mPa·s	500 to 800 mPa·s	30,000 to 45,000 mPa·s	150 to 350 mPa·s
PHOTOCURING TIME (410 nm; 30 mW/cm²)	< 3 sec				
PHOTOCURING WAVELENGTH	360 to 440 nm				
FIXTURE TIME on ABS/ABS (contact cure)	15 to 30 sec	50 to 70 sec	60 to 80 sec	15 to 30 sec	30 to 60 sec
BOND STRENGTH (GBMS)	17 to 20 MPa	11 to 15 MPa	13 to 17 MPa	16 to 18 MPa	9 to 11 MPa
ELONGATION AT BREAK	1%	4%	1.50%	0.10%	120%
APPEARANCE	Colourless when cured				
TEMPERATURE RANGE	-40 to 80 °C			-40 to 60 °C	
CERTIFICATIONS	ISO 10	0993-5	ISO 10993-5,	ISO 10993-10	ISO 10993-5
PACKAGING	Bottles: 20 g and 500 g Cartridge: 30 mL Bottle: 500 g			Bottles: 20 g and 500 g	



TDS and SDS available at born2bond.bostik.com

*Depending on substrates. *Patented in multiple countries. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-CYANOACRYLATE



Ultra range	
Aquafast	71
Ultra K85	72
Structural	74
Repair	75
MP515	75
Flex	75



1K & 2K CYANOACRYLATE



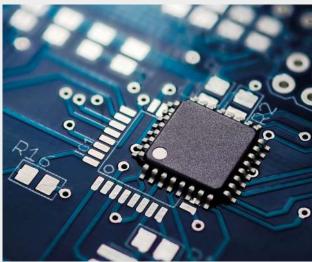
1K & 2K Cyanoacrylate

Thanks to backward integration in cyanoacrylate monomers (made possible by Arkema's material and chemistry expertise), including methoxyethyl cyanoacrylate and heptylcyanoacrylate and supported by our patented crackless process, we have developed a comprehensive and unique range that sets new industry standards.

Born2Bond™ 1K & 2K Cyanoacrylate adhesives deliver extremely fast, durable and high-performance bonding for diverse substrates, including plastics, metals and rubbers. With low odour, reduced blooming and gap-filling properties, these adhesives are ideal for precision applications in automotive, electronics and general assembly, offering reliability and versatility to meet the latest manufacturing demands.









Ultra



LOW-ODOUR, LOW-BLOOMING INSTANT ADHESIVES

Low-odour, low-blooming, instant adhesives with a range of viscosities, specially designed for bonding most substrates including plastics, rubbers and metals.

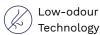
The formulation consistency has been designed for high bond strength, even in places that are subject to flexing. Careful selection of the formulation ingredients ensures that the product does not leave white stains (blooming).







Bloom





FEATURES

- Short fixture time
- High bonding strength
- Less brittle than conventional instant adhesives
- · Transparent and easy to use

TYPICAL APPLICATIONS

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



FOCUSED ON PERFORMANCE

Born2Bond™ Ultra cyanoacrylates are ideal for applications that demand minimal blooming and low odour. These adhesives significantly reduce the whitening effect and emit a low odour, enhancing user comfort. Furthermore they are classified as not hazardous according to EU regulation (EC) 1272/2008 (CLP).



BORN2BOND™ ULTRA AND AQUAFAST

The list of features in the following tables will help you identify which products best match your needs.

ULTRA RANGE	ULTRA LV	ULTRA MV	ULTRA HV	ULTRA GEL
BASE	Methoxyethyl Cyanoacrylate			
VISCOSITY	20 to 50 mPa·s	120 to 170 mPa·s	700 to 1,000 mPa·s	105,000 to 120,000 mPa·s
FIXTURE TIME*	5 to 10 sec	10 sec	15 sec	5 sec
BOND STRENGTH (GBMS)	20 MPa	21 MPa	20 MPa	18 MPa
APPEARANCE	Transparent			
TEMPERATURE RANGE	-40 to 80 °C			
CERTIFICATIONS	ISO 10993-5 NSF S4, ISO 10993-5 ISO 10993-5		993-5	
PACKAGING	Bottles: 20 g and 500 g Cartridges: 30 cc and 300			Cartridges: 30 cc and 300 cc

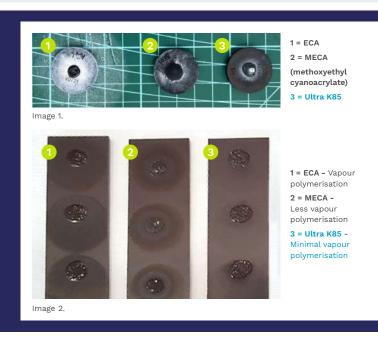
	AQUAFAST**
BASE	Ethyl Cyanoacrylate
VISCOSITY	90 to 150 mPa·s
FIXTURE TIME*	10 to 80 sec
BOND STRENGTH (GBMS)	18 MPa
APPEARANCE	Transparent
TEMPERATURE RANGE	-40 to 120 °C
PACKAGING	Bottles: 20 g and 500 g



What is cyanoacrylate blooming?

Blooming is a common phenomenon when using cyanoacrylates. It happens when excess cyanoacrylate monomers vaporise and react with moisture in the air, causing a white residue often seen on plastics or rubbers.

The **Born2Bond™ Ultra** range, including **Ultra K85**, result in less less blooming than traditional ethyl cyanoacrylates (ECA).



TDS and SDS available at born2bond.bostik.com

- *Depending on substrates.
- **Aquafast has been designed for high humidity and immersion resistance. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.



Ultra K85



60% BIO-BASED INSTANT ADHESIVE WITH REVOLUTIONARY DURABILITY

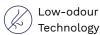
Fast-bonding adhesive that boasts exceptional resistance to humidity and high temperatures.

The first-ever instant adhesive to withstand more than 1,000 hours at 85 °C and 85% relative humidity*, it is ideal for bonding substrates exposed to highly-variable environmental conditions, without compromising outstanding sustainability credentials.













Sustainability
/Bio-based
Content

FEATURES

- Resistant to 85 °C/85%RH for more than 1,000 hours
- · Resistant to 70 °C for 10 days under water
- Passes the cataplasma test on GBMS
- 30% elongation
- 60% bio-based content (ASTM D6866) from renewable sources (Arkema Oleris® Advanced Bio-Materials)
- Hydroquinone content below 10 ppm

TYPICAL APPLICATIONS

- Outdoor products (exposed to rain, heat and cold)
- MRO (Maintenance, Repair and Overhaul)
- · General assembly
- · Toy manufacturing and prototyping
- · Medical devices
- Automotive
- · Consumer electronics
- Footwear



SUSTAINABILITY ENABLER



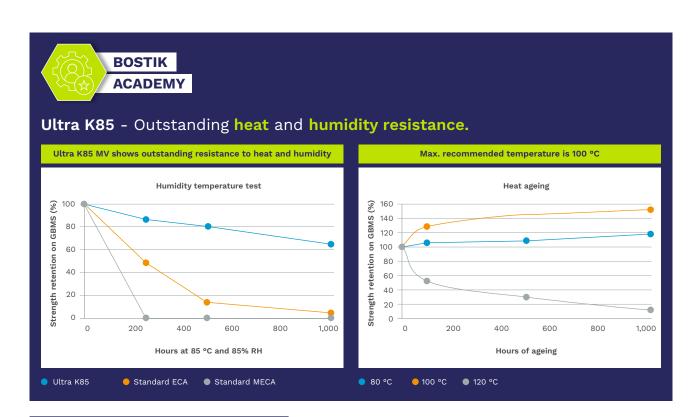
Born2Bond™ Ultra K85 is made from 60% bio-based materials (ASTM D6866), helping to support users' sustainability targets without compromising on performance. Arkema, Bostik's parent company, is part of the 'Pragati' sustainable castor bean farming programme which is the sustainable base for Ultra K85. Castor beans do not compete for space with food, do not require or result in deforestation and are profitable for local farmers – thus benefiting the areas that they are grown.



BORN2BOND™ ULTRA K85

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

	ULTRA K85 MV
BASE	Heptyl Cyanoacrylate
VISCOSITY	140 to 200 mPa·s
FIXTURE TIME**	15 sec
BOND STRENGTH	8 to 15 MPa
APPEARANCE	Colourless
TEMPERATURE RANGE	-40 to 100 °C
CERTIFICATIONS	ISO 10993-5
PACKAGING	Bottles: 20 g and 500 g



TDS and SDS available at born2bond.bostik.com

*Up to 5,000 hours on ABS. **Depending on substrates. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.



Instant Bonding



HIGH-STRENGTH, TWO-PART,

INSTANT ADHESIVE

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 non-porous substrates, such as aluminium, steel, plastics and elastomers as well as porous substrates, such as woods, chipboard and leather. Formulated for applications that require mechanical and in-use environmental resistance.





Gap Filling



High Strength



Impact Resistant



Multisubstrate Adhesion



Precision



Long Open Time (up to)

FEATURES

- Short fixture time
- Long open time
- · High adhesion strength
- Fills gaps up to 5 mm
- · Translucent after curing
- Gel consistency for precise application
- · Multipositioning dispensing

TYPICAL APPLICATIONS

- · General assembly
- MRO applications
- · Structural bonding
- Magnet bonding
- Automotive

FOCUSED ON PERFORMANCE



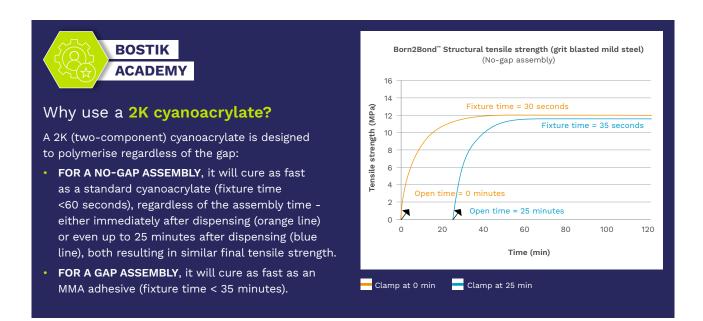
Standard single-component cyanoacrylates require the bonded surfaces to be in direct contact, as they do not cure effectively in the presence of gaps. In contrast, **two-component cyanoacrylates are engineered to fill gaps up to 5 mm**, providing **high-strength bonds** even when the surfaces are not perfectly aligned. **Born2Bond 2K cyanoacrylates** are a **versatile and reliable choice** for more demanding bonding scenarios where performance and durability are critical.



BORN2BOND™ INSTANT BONDING RANGE

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

	STRUCTURAL	REPAIR	FLEX	MP515
BASE	Hybrid Cyanoacrylate & Acrylate	Ethyl Cyanoacrylate	Methoxyethyl Cyanoacrylate	Ethyl Cyanoacrylate /Multifunctional Acrylates
VISCOSITY (mPa·s)	PART A: 100,000 to 150,000 PART B: 40,000 to 80,000	PART A: 130,000 to 180,000 PART B: 70,000 to 130,000	PART A: 120,000 to 170,000 PART B: 70,000 to 130,000	PART A: 120,000 to 180,000 PART B: 40,000 to 70,000
OPEN TIME	25 min	4 to 10 min	6 to 10 min	5 min
FIXTURE TIME*	30 to 90 sec	15 to 60 sec	60 sec	30 to 140 sec
BOND STRENGTH (GBMS)	14 N	MРа	10 MPa	18 to 23 MPa
APPEARANCE	Transparent	Whitish	Trans	parent
TEMPERATURE RANGE	-40 to 120 °C	-40 to 80 °C	-40 to 100 °C	-40 to 120 °C
GAP FILLING CAPABILITY	5 mm	1.5 cm	1 cm	5 mm
CERTIFICATIONS	ISO 10993-5 NS		- S4	-
PACKAGING	Syringes: 10 g and 50 g			



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*Depending on gaps and substrates. **Except polyolefins. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.



HIGH PERFORMANCE HMPUR

BOSTIK BORN[®]BOND[™] HIGH PERFORMANCE HMPUR

HHD 6009	78
HHD 6002	79
HHD 6006	79
HHD 6103BK	79
HHD 5504	79
HHD 5510	79
HHD 5518BK	79
HHD 5529	79
HHD 5539BK	79
HHD 5507	79





High Performance HMPUR

With years of collaboration alongside leaders in consumer electronics and durable goods manufacturing, Bostik has gained deep expertise and invaluable experience to meet the demands of the most challenging industries. This has resulted in a comprehensive and well-established range of solutions tailored to the needs of designers and manufacturers of advanced products – products that address challenges such as bonding increasingly diverse substrates, ensuring greater durability under varying environmental conditions and maintaining efficient production processes.

Born2Bond™ High Performance HMPUR adhesives tackle these issues with versatile, single-component solutions that deliver excellent adhesion, flexibility and resistance to temperature and humidity fluctuations, enhancing product reliability and manufacturing efficiency. Bostik's latest innovations meet the industry's growing demand for more sustainable adhesives.









High Performance HMPUR



MODERN DAY INDUSTRY DEMANDS

Versatile, single-component solutions capable of bonding a wide variety of substrates. Available in a range of viscosities with varying open times, they enable precise dispensing across different applications and assembly processes.

Delivering excellent bonding performance (both rigid and elastic), these High Performance HMPUR adhesives will withstand fluctuations in temperature and humidity. They also remain resistant to impact, thermal shock and chemical and organic compounds, including sweat and sebum – making them ideal for use in hand-held devices and wearable electronics.





Flexible & Elastic









FEATURES

- High bonding strength
- Excellent fluidity suitable for a variety of application methods
- · Good chemical resistance
- · High flexibility and impact resistance
- Good balance between strength and elasticity
- Adjustable viscosity

TYPICAL APPLICATIONS

- Structural bonding for consumer electronics
- Hand-held devices
- Wearable electronics
- Displays and touch screens assembly
- Audio (TWS, airbuds and microspeaker assembly)

FOCUSED ON PERFORMANCE

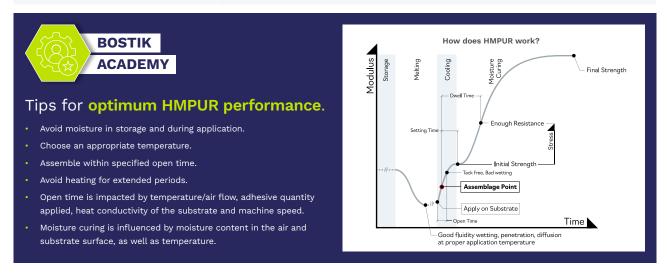


Bostik's HMPUR range are high-performance adhesives that enable reworkability during the manufacturing process. This capability allows for better quality control, ensuring that products meet specifications and reduce the occurrence of out-of-spec items on the production line. By enabling adjustments and corrections during manufacturing, Bostik HMPUR helps maintain consistent product quality and efficiency. This makes it an invaluable asset for manufacturers aiming to optimise their production processes and reduce waste.



	HHD 6009	ННD 6002	HHD 6006	HHD 6103BK
COLOUR		Off white paste		Black
VISCOSITY (mPa·s)	3,500 @130 °C	5,500 @130 °C	6,000 @130 °C	5,000 @130 °C
OPERATING TEMPERATURE	100 to 130 °C	120 to	130 °C	110 to 130 °C
OPEN TIME*	1 to 3 min		2 to 4 min	5 min
DENSITY	1.1 g/cm³			
TENSILE STRENGTH	11 MPa	12 MPa	11 N	1Pa
ELONGATION AT BREAK	1,500%	1,100%	900%	1,200%
UV-TRACE	No**		Yes	No
CERTIFICATIONS	ISO 10993-5, ISO 10993-10			-
PACKAGING	Cartridges: 30 mL and 300 mL		Cartridges: 30 mL, 150 mL and 300 mL	Cartridges: 30 mL and 300 mL

	HHD 5504	HHD 5510	HHD 5518BK	HHD 5529	HHD 5539BK	HHD 5507
COLOUR	Off whi	te paste	Black	Off white paste	Black	Off white paste
VISCOSITY (mPa·s)	2,200 @110 °C	4,300 @110 °C	6,800 @110 °C	3,700 (⊚110 °C	2,300 @110 °C
OPERATING TEMPERATURE		100 to 120 °C				
OPEN TIME*	5 to 7 min	5 to 7 min 2 to 4 min 5 to 7 min			5 to 7 min	
DENSITY		1.1 g/cm³				
TENSILE STRENGTH	> 10 MPa	> 10 MPa > 10 MPa				
ELONGATION AT BREAK		> 800%				
UV-TRACE		Yes				
CERTIFICATIONS		-				
PACKAGING		Cartridge: 30 mL				



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*Open time is an application factor that depends on the environment temperature, substrates and application process. **UV tracer version available.

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES



WEB & FILM

BOSTIK

WEB & FILM

Web - PA92 E	82

W	∕eb –	PE10	9 E		8:

Film – TC206	83
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I	lm – TC440	83

Film - TC5009 83

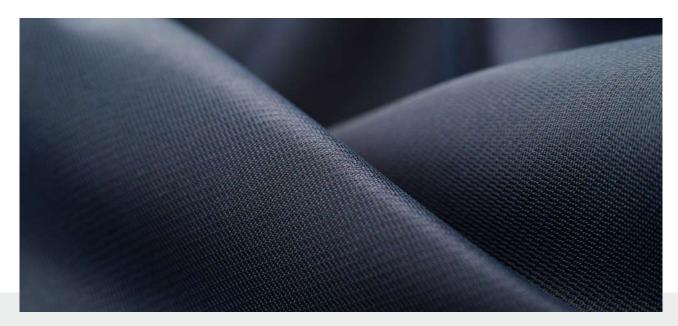






Web & Film

Bostik's hot melt webs and films offer advanced bonding and laminating solutions for a wide range of applications, from textiles and technical fabrics to industrial and electronic soft goods. Designed for efficiency, durability and ease of storage and use, these solid adhesives activate with mild heat to form strong, reliable bonds while enabling seamless integration into automated processes. Available in various chemistries and formats, they enhance production efficiency with clean, precise application and reduced processing steps. With in-house expertise and integration with Arkema, Bostik delivers both ready-made and custom adhesive solutions, tailored to meet the specific needs of your industry.







BOSTIK ENGINEERING ADHESIVES WEB & FILM | 81



Web & Film



VERSATILE, CONSISTENT AND

EASY-TO-USE HOT MELT SOLUTIONS

PA92 E is a high-performance, bio-based copolyamide adhesive web designed for strong, uniform bonding across textiles, plastics and sensitive materials like leather. With an 80% bio-based content and low activation temperature, it offers a sustainable, efficient solution for various applications.

Engineered with a fine filament pattern, PA92 E provides a soft textile feel and excellent adhesive coverage. It bonds well to leathers, fabrics and polyurethane foams, with strong resistance to oils, plasticisers and dry cleaning. Available in roll form, it supports both intermittent and continuous processes while maintaining low VOC emissions.





Multisubstrate Adhesion



Lightweight



Low Activation Temperature





FEATURES

WEBS

- Easy and clean to use
- · Acoustic properties
- · Good air flow
- Consistent bonding

FILMS

- Easy and clean to use
- · Consistent bonding
- Excellent versatility

TYPICAL APPLICATIONS

- Soft goods, including leather and textiles
- · Smart speakers
- Keyboards
- · Tablet and phone cases



FOCUSED ON PERFORMANCE

Bostik's adhesive web and film technologies provide **consistent application control, optimised weight-to-performance ratios**, in addition to **neat and flexible manufacturing**. Whether offering fabric-like handling in non-woven webs with good air flow or full-surface coverage with films for demanding bonding applications, Bostik's specialty hot melts **ensure superior and durable adhesion**, requiring only mild heat for activation.



BOSTIK WEB & FILM RANGE

The list of features in the following tables will help you identify which products best match your needs.

WEB	PA92 E	PE109 E	PU108 E
CHEMISTRY	Bio-based CoPA (80%) from Arkema	CoPES from Bostik	Aliphatic TPU
MELTING POINT (Kofler method)	90 to 100 °C	105 to 110 °C	105 to 115 °C
VISCOSITY (MFI @160 °C; 2.16 kg)	35 mg/10 min	30 g/10 min	60 g/10 min
TYPICAL WEIGHT	8 to 120 gsm		
TYPICAL WIDTH	250 to 3,200 mm		

FILM	TC206	TC440	TC5009
CHEMISTRY	Bio-based CoPA (50%) from Arkema	CoPES from Bostik	Aromatic TPU
MELTING POINT (Kofler method)	105 to 115 °C	90 to 100 °C	95 to 105 °C
VISCOSITY (MFI @160 °C; 2.16 kg)	10 g/10 min	20 g/10 min	10 g/10 min
TYPICAL WEIGHT	20 to 100 gsm		
TYPICAL WIDTH	10 to 2,800 mm		



Optimising bonding conditions

for hot melt webs & films.

Consider three key parameters for optimal bonding performance: **TEMPERATURE, PRESSURE** and **TIME**.

- 1. TEMPERATURE ≈ 20% above the web or film melting temperature (always refer to the product TDS).
- **2. PRESSURE** To prevent poor adhesion, voids or aesthetic flaws, we recommend a pressure of 1-2 bar.
- **3. TIME** The optimal bonding time is the time taken to reach the target glue-line bonding temperature, plus 30 seconds:
 - TEXTILES: 30+ seconds
 - FOAMS: 30-45+ seconds
 - RIGID SUBSTRATES: 45-60+ seconds



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.



2K SILICONE

BOSTIK BORN2BOND™ 2K SILICONE

SIL-9605

86





2K Silicone

When it comes to assembly lines where very high temperatures are involved, non-carbonated chemistries deliver superior performance. Born2Bond™ 2K Silicone adhesives provide durable, high-performance bonding for demanding applications requiring flexibility and resistance to extreme temperatures. Ideal for automotive, electronics and industrial assembly, these two-component silicones ensure strong adhesion to diverse substrates, delivering long-lasting seals and enhanced durability across challenging environments.







BOSTIK ENGINEERING ADHESIVES 2K SILICONE | 85



2K Silicone



HIGH-PERFORMANCE 2K SILICONE SEALANT

SIL-9605 is a two-component, 100% silicone, room temperature cure sealant that rapidly builds adhesive and elastomeric strength for appliance assembly.

It develops high initial green strength, so you do not have to slow your production of assemblies within minutes of bonding. SIL-9605 is a solventless solution certified under UL746C, proving it meets industry standards for safety and performance in electrical applications.





Flexible & Elastic



Processing



High Heat Resistance



Chemical Resistance



Multisubstrate Adhesion



FEATURES

- High temperature resistance (180 °C)
- Excellent ageing resistance
- · High flexibility
- Excellent UV and chemical resistance
- · Non-corrosive while curing

TYPICAL APPLICATIONS

- Electric stove-top bonding (high temperature resistance)
- Overhead hood assemblies (high temperature resistance)
- Refrigerator assembly
- · Washer/dryer assembly



FOCUSED ON PERFORMANCE

Silicones are inorganic polymers made up of siloxane bonds without carbon atoms in the backbone chain. This results in several advantageous properties, including resistance to high temperatures, improved fire resistance and better UV resistance. Additionally, silicones exhibit superior chemical resistance and remarkable durability.

These characteristics, combined with its inherent elasticity, make silicone an **exceptionally versatile** material for various applications.

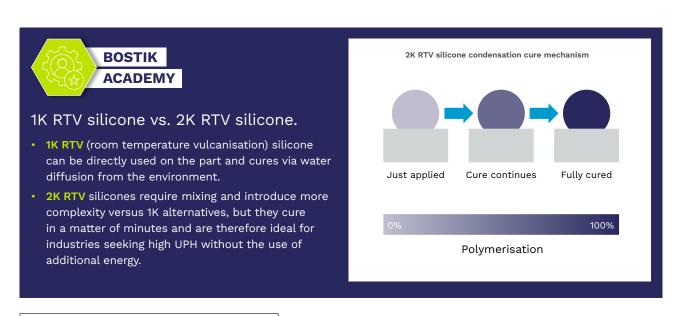
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BORN2BOND™ 2K SILICONE

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

	SIL 9605		
	PART A PART B		
COLOUR (mixed)	Bla	ack	
DENSITY (mixed)	1.35 to 1.45 g/mL		
MIX RATIO	2:1		
SKIN OVER TIME (mixed)	< 4 min		
SNAP TIME (mixed)	< 8 min		
COLOUR	Black White		
VISCOSITY	75,000 to 150,000 mPa·s 40,000 to 55,000 mPa·s		
DENSITY	1.25 to 1.35 g/mL 1.60 to 1.75 g/mL		
PACKAGING	Side by side cartridge: 400 mL. Pails and drums also available on request.		



TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K SILICONE



SMP SEALANT

BOSTIK SMP SEALANT

ISR 70-03 (EU version) **90**

ISR 70-07 (EU version) 91





SMP Sealant

Capitalising on decades of experience with leading durable goods manufacturers – and being one of the global leaders in Silyl Modified Polymers – Bostik's SMP range offers extremely robust bonding and sealing solutions that withstand movement, vibration and harsh conditions. Designed for construction, automotive and industrial applications, these flexible, weather-resistant sealants ensure superior adhesion to a variety of materials, providing long-term performance while supporting sustainable solutions.







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BOSTIK ENGINEERING ADHESIVES SMP SEALANT



SMP Sealant



HIGH-STRENGTH SMP SEALANT FOR INDUSTRIAL APPLICATIONS

Bostik ISR 70-03 is a high quality elastic bonding adhesive, suitable for use on industrial applications requiring high strength.

It has excellent resistance to UV, weather and temperature and exhibits excellent adhesion performance on a wide variety of substrates (minimal or no pre-treatment necessary) while it can be overpainted with most common industrial paints.

Bostik ISR 70-03 used with Dual SMP® technology guarantees an increased cure speed, extending application possibilities.





Flexible & Elastic



Multisubstrate Adhesion





FEATURES

- Good adhesion on many substrates without the use of a primer
- · Low odour
- Compatible with most commercially available paints and lacquers
- Excellent UV and weather resistance

TYPICAL APPLICATIONS

- Audio (loudspeaker assembly, bonding of earphone charging cases)
- Lighting (lighting fixtures, public lighting)
- Screens (bonding/sealing of touch-screens and touch-panels)
- Mobility (automotive interiors, marine applications)



SUSTAINABILITY ENABLER

Bostik's ISR-range consists of Silyl Modified Polymer (SMP) based sealants that provide **ease of application**. Additionally they are classified as **not hazardous** according to EU regulation (EC) 1272/2008 (CLP).

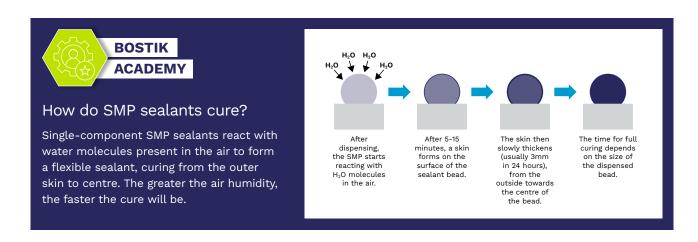
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BOSTIK™ SMP SEALANT

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

	ISR 70-03 (EU version)	ISR 70-07 (EU version)		
BASIC MATERIAL	Silyl Modified			
CURING METHOD	Moisture			
DENSITY	1.5 g/mL	1.4 g/mL		
SKIN FORMING TIME 23/50%R.H.	10 min	60 min		
CURING SPEED AFTER 24 HR 23/50%R.H.	3 mm 2.5 mm			
SHORE A HARDNESS	58 40			
VOLUME CHANGE	< 3%			
TENSILE STRESS (100%) ISO 37 (dumbbells)	2.5 MPa	1.0 MPa		
TENSILE STRESS AT BREAK ISO 37 (dumbbells)	3.5 MPa	1.3 MPa		
ELONGATION AT BREAK ISO 37 (dumbbells)	200%			
E-MODULUS (10%) ISO 37 (dumbbells)	4.5			
SHEAR STRESS ISO 4587	2.5 MPa –			
GLASS TRANSITION	-50 °C −			
TEMPERATURE RESISTANCE	-40 to 110 °C*			
APPLICATION TEMPERATURE	5 to 40 °C			
COLOURS (standard)	White, grey, black	Grey		
CERTIFICATION	ISEGA –			
PACKAGING	Cartridge: 290 mL			



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*10 Cycles of 7 hours at 110 °C followed by 17 hours at 23 °C/50%RH. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES SMP SEALANT



2K MMA





BOSTIK BORN2BOND™ **2K MMA**

XMA 5005 94

XMA 3015 95

XMA 5010 95





2K MMA

Born2Bond™ 2K MMA adhesives deliver high-performance bonding and sealing for demanding applications. Engineered for exceptional strength and flexibility, they are designed to withstand vibration, impact and extreme conditions across sectors such as electronics, general assembly, automotive and transportation and medical devices. Offering fast curing times and excellent adhesion to diverse materials, they provide durable, reliable performance tailored to modern manufacturing needs.







BOSTIK ENGINEERING ADHESIVES



2K MMA



STREAMLINING STRUCTURAL ASSEMBLY PROCESSES

Designed for multi-substrate structural bonding (including glass, ceramics, metals and plastics), Born2Bond™ XMA (Methylmethacrylate Adhesives) incorporates Nanostrength® technology developed by Bostik's parent company, Arkema.

Nanostrength® provides sag resistance during and after dispensing and above all greater impact resistance and elongation properties that are up to eight times those of typical MMA (Methyl Methacrylate Adhesives) products.

Born2Bond™ XMA products are highly stable, with excellent gap-filling properties and low squeeze-out, resulting in a finer finish and reduced risk of wastage.













FEATURES

- · High impact resistance
- Sag resistance
- High elongation
- Suitable for manual and automated dispensing
- Colour indication for processing (mixing quality & curing status)

TYPICAL APPLICATIONS

- Electronics (laptops, casing and enclosures)
- General assembly (appliances and enclosures)
- Automotive and transportation interior and exterior parts

FOCUSED ON PERFORMANCE



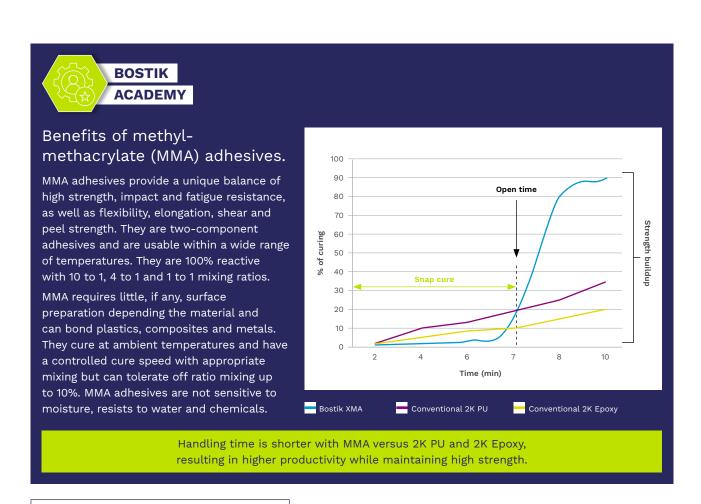
Born2Bond™ MMA Adhesives are designed for high-performance structural bonding, offering exceptional strength and durability. They can bond a variety of substrates, including metals, plastics and composites, and provide excellent gap-filling properties for robust bonds. These adhesives are engineered to withstand environmental factors like temperature changes, chemicals and moisture, ensuring long-lasting adhesion. Their fast curing times enhance production efficiency, making them ideal for assembly processes in various industries.



BORN2BOND™ 2K MMA

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

	XMA 5005	XMA 3015	XMA 5010
COLOUR	Blue (before)/Green (after)		
OPEN TIME	3 min	5 to 7 min	5 to 8 min
FIXTURE TIME	5 min	12 to 15 min	8 to 12 min
MODULUS (ISO 527)	800 to 1,100 MPa	1,000 to 1,200 MPa	650 MPa
ELONGATION (ISO 527)	60% 30%		100%
LAP SHEAR (AI)	18 MPa	20 MPa	18 MPa
SERVICE TEMPERATURE	-55 to 140 °C		
PACKAGING	Cartridge: 50 mL		



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K MMA | 95



2K EPOXY

POLYTEC PT 2K EPOXY

EP 655 T EP 601 T

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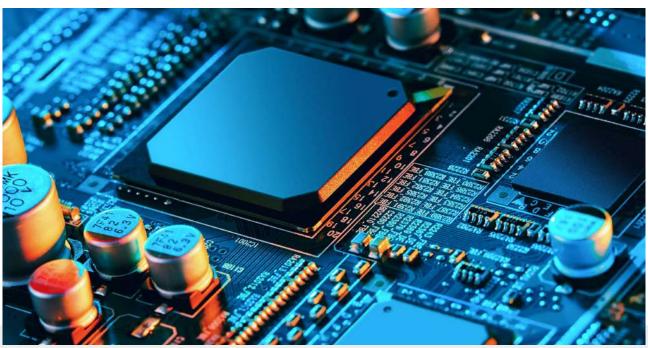
🍂 Polytec PT



2K Epoxy

Polytec PT 2K Epoxy adhesives deliver exceptional bonding strength and chemical resistance. Designed for applications in medical devices, semiconductors and high-precision electronics, they ensure high durability under harsh conditions.

With a focus on precision and performance, these adhesives support efficient production processes and provide robust, long-lasting bonds across diverse, demanding industries.







BOSTIK ENGINEERING ADHESIVES 2K EPOXY 97



2K Epoxy



2K STRUCTURAL ADHESIVE FOR BONDING DISSIMILAR SUBSTRATES

Polytec PT EP 655 T is a 100% solid, two component, non-flowing, highly thixotropic, tough-elastic modified, high-temperature-, moisture-and chemical-resistant epoxy adhesive.

Certified to USP Class VI Biocompatibility Standards, it is designed for medical, semiconductor, hybrid, piezo and fibre optic applications. It has excellent adhesion to glass, metal, ceramics, ferrite and most plastics and is recommended for adhesion and encapsulation.

Its tough-elastic properties allows the assembly of substrates with dissimilar coefficients of thermal expansion. Polytec PT EP 655 T has passed more than 1,000 autoclave steam cycles.





High Temperature (Resistance



Chemical Resistance



Higher Durability



Long Open Time

FEATURES

- Multi-substrate adhesion
- High temperature resistant
- Moisture and chemical resistant
- · Thixotropic consistency allows for precise application

TYPICAL APPLICATIONS

- Medical devices
- Semiconductors
- · Glass fibre bonding



FOCUSED ON PERFORMANCE

Polytec PT 2K Epoxies offer strong adhesion to a variety of materials, including metals, plastics, glass and ceramics. They are highly resistant to moisture and chemicals, ensuring durability in harsh environments. They provide reliable and robust bonding solutions, contributing to the long-lasting life and robustness of the finished goods.

99



POLYTEC PT 2K EPOXY RANGE

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

	EP 655 T	EP 601 T	
GENERAL CURE CONDITIONS	> 80 °C	> 15 °C	
1K / 2K	2К		
MIX RATIO BY WEIGHT	100:10	100:35	
VISCOSITY MIX	11,500 mPa·s	3,000 mPa·s	
POT LIFE	24 h	4 h	
TYPICAL CURE CONDITIONS (determined by DSC)	150 °C/5 min	150 °C/12 min	
SHORE HARDNESS	D 85	D 80	
GLASS TRANSITION TEMPERATURE	105 °C	65 °C	
LAP SHEAR STRENGTH (Al / Al)	16 MPa	37 MPa	
ELONGATION AT BREAK	2.8%	2.9%	
CERTIFICATIONS	USP VI	-	
PACKAGING	Two separate containers: 250 g, 500 g and 1 kg		

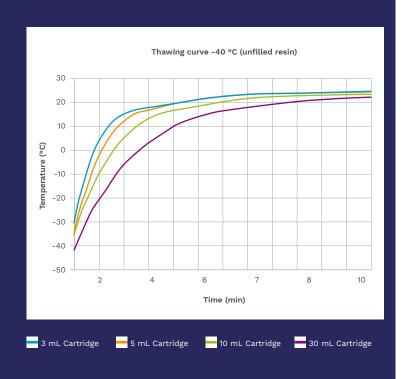


Pre-mixed frozen products.

Premixed frozen products are particularly interesting for medical applications. There is no need for mixing by the user (this is done at Bostik's production plant prior to shipping), therefore reducing complexity, risk and costs associated with dispensing equipment.

They are shipped with dry ice to ensure the low temperature is maintained but thawing is necessary prior to use. Some 2K hot cure systems are also available in premixed frozen form (please get in touch with your Bostik representative to find out more).





 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

Always use glasses and gloves when applying adhesives.

Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K EPOXY



1K MA/1K EPOXY

POLYTEC PT 1K MA/1K EPOXY

1K MA - AC 2441

102

1K Epoxy - EP 501

103

🍂 Polytec PT



1K MA/1K Epoxy

Polytec PT single-component (1K) structural adhesives eliminate the need for mixing, ensuring convenience and consistent performance.

Available in methacrylate (MA) for fast curing and multi-substrate bonding or epoxy for superior chemical and temperature resistance, they offer versatile solutions tailored to modern manufacturing needs.







BOSTIK ENGINEERING ADHESIVES 1K MA/1K EPOXY 101



1K MA/ 1K Epoxy



SINGLE-COMPONENT, STRUCTURAL, MULTI-SUBSTRATE ADHESIVE

Polytec PT AC 2441 is a single component, thermal curing acrylate/methacrylate hybrid adhesive. It is thixotropic and offers very good adhesion to various substrates.

Additionally, it boasts very high strength, impact resistance, rubber toughening and thermal shock resistance. This makes it ideal for applications such as bonding, sealing, potting and magnet bonding.





Higher Strength



Impact Resistance



High Temperature Resistant





Chemical Resistance

FEATURES

- Single component
- Multi-substrate adhesion
- · Medium viscosity
- · Thixotropic behaviour
- · Very high strength
- · Thermal shock resistant

TYPICAL APPLICATIONS

- · Magnet bonding
- Structural bonding of metals
- Electronics

FOCUSED ON PERFORMANCE

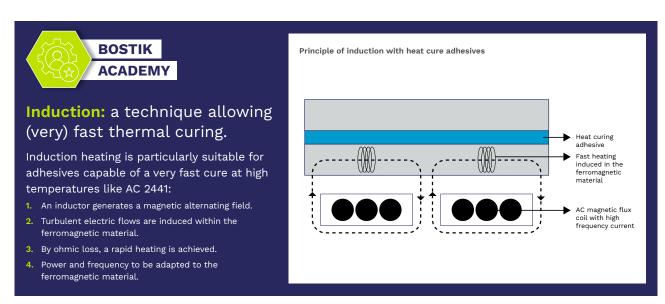


Polytec PT's single-component structural bonding adhesives are designed for high functionality in industrial applications. They provide **excellent adhesion to a variety of materials**, including metals, ceramics, glass and some plastics. These adhesives require heat curing, which ensures **strong and durable bonds**. They offer **high tensile and lap shear strength** and can withstand a **wide range of temperatures**. This makes them ideal for applications where **reliable**, **long-lasting bonds** are crucial.



1K MA	AC 2441		
CHEMICAL BASE	Hybrid		
CURING	Thermal		
APPEARANCE	Opaque		
VISCOSITY @23 °C	3,500 to 8,500 mPa·s		
THIXOTROPY	Yes		
FLEXIBILITY	No		
SHORE HARDNESS	D 80		
SUBSTRATE COMPATIBILITY	Magnets & Metals		
PACKAGING	Cartridge: 30 g		

1К ЕРОХУ	EP 501	
GENERAL CURE CONDITIONS	> 120 °C	
VISCOSITY MIX	13,000 mPa·s	
POT LIFE	1 month	
TYPICAL CURE CONDITIONS (determined by DSC)	150 °C/8 to 10 min	
SHORE HARDNESS	D 85	
GLASS TRANSITION TEMPERATURE	125 °C	
LAP SHEAR STRENGTH (Al / Al)	31 MPa	
ELONGATION AT BREAK	4%	
PACKAGING	Jars: 250 g, 500 g and 1 kg, Cartridge: 35 g	



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

Always use glasses and gloves when applying adhesives.

Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 1K MA/1K EPOXY | 103



PRODUCT RANGES INCLUDED WITHIN BOSTIK PROTECT

HMPA range

106

UV-Epoxy range

108

2K Epoxy/UV-Acrylate

110

Thermal Conductive range

112

BORN2 BOND

THERMELT

🍂 Polytec PT



Protect

SAFEGUARDING MATERIALS AND COMPONENTS FOR LONG-TERM PERFORMANCE

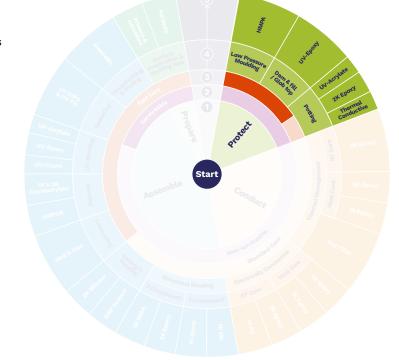
In increasingly demanding environments, ensuring the durability of delicate components is as crucial as bonding them. Designers and manufacturers must ensure their products can withstand exposure to moisture, dust, UV and chemicals, which can compromise performance over time. Bostik's protective adhesives not only provide robust bonding but also form a barrier that shields end products from environmental damage.







The PROTECT section showcases advanced solutions designed to improve product durability and reliability across industries. Discover how Bostik's protective technologies deliver lasting performance and essential peace of mind.







HMPA



FOR ELECTRONICS LPM

Resin **Thermelt® 867** is a pure copolymer polyamide hot melt resin. Non-reactive, it is specially designed for Low Pressure Moulding of electronic components, connectors and cables.







Fast Processing



Higher Durability



Sustainability
/Bio-based Content



Encapsulation

FEATURES

- Wide temperature range of use
- High mechanical performance
- High resistance to temperature and oil
- Suitable for various materials including sensitive electronic components
- Single component & non curing

TYPICAL APPLICATIONS

- Automotive sensors
- Onboard electronics
- LEDs
- PCBs overmoulding
- · Cables, connectors and antennas





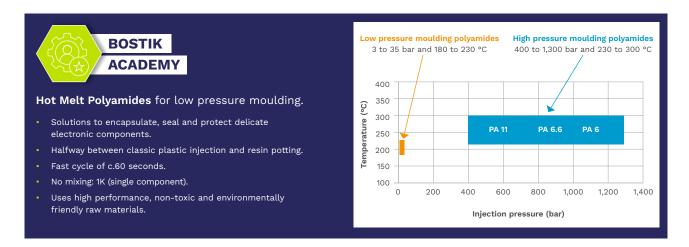
SUSTAINABILITY ENABLER

Thermelt® resins are made from **up to 90% bio-based raw materials** including **rapeseed and castor bean** derivatives. Additionally, these high performance products **can be disassembled** at their end of life thanks to the thermoplastic nature of the resin.



	TH 867	TH 858	TH 865
OPERATING TEMPERATURE RANGE	-40 to 150 °C		-55 to 120 °C
SHORE HARDNESS (ISO 868) (15 s)	27 D	32 D	15 D
SOFTENING POINT (ASTM D3461)	183 ± 7 °C	180 ± 5 °C	157 ± 8 °C
TYPICAL CHARACTERISTICS	General purpose high performance mouldable polyamide with good adhesion and environmental and thermal shock resistance. Used for applications such as automotive exteriors.	Mouldable polyamide with very good thermal stability as well as UV and moisture resistance. (Available in black only).	Mouldable polyamide with very good low temperature resistance and good adhesion for automotive applications.
BIO-BASED CONTENT	50 to 90%		
CERTIFICATIONS	UL94 V0 Natural colour: ISO 10993-4 ISO 10993-10, ISO 10993-11 ISO 10993-23*	UL94 V0, UL F2	UL94 V0
PACKAGING		Bag: 20 kg	

	TH 195	TH 866	TH 870	TH 964
OPERATING TEMPERATURE RANGE	-20 to 160 °C	-25 to 115 °C	-10 to 110 °C	-60 to 150 °C
SHORE HARDNESS (ISO 868) (15 s)	40 D	12 D	23 D	25 D
SOFTENING POINT (ASTM D3461)	200 ± 4 °C	156 ± 6 °C	144 ± 5 °C	183 ± 5 °C
TYPICAL CHARACTERISTICS	Mouldable polyamide with excellent thermal stability and increased hardness for electronics overmoulding.	Mouldable polyamide with excellent adhesion to PES, PC and other demanding substrates.	General purpose mouldable polyamide with increased adhesion for electronic applications.	Specialty polyamide with enhanced adhesion and flexibility at low temperatures.
BIO-BASED CONTENT	50 to 90%			
CERTIFICATIONS	UL94 V2 Natural colour: ISO 10993-4, ISO 10993-5 ISO 10993-10, ISO 10993-11 ISO 10993-23	-	UL94 VO	-
PACKAGING	Bag: 20 kg			



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*For RTI please contact your Bostik representative. Values based on internal estimations, for informational purposes only. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES HMPA 107



UV-Epoxy





SOLVENT-FREE ONE-COMPONENT CATIONIC EPOXY RESIN

Polytec PT UV 3174 T is a single component cationic epoxy resin that cures under UV/VIS light.

It has a medium viscosity, is thixotropic and offers excellent impact, temperature shock and moisture resistance. After curing, it dries as a solid surface, making it ideal for conformal coating, corrosion protection and general purpose encapsulation.





High Viscosities



Chemical Resistance



Fast Curing



Toughened



Light Cure

FEATURES

- Available in multiple viscosities
- High precision and high-speed automated dispensing
- · High resistance to thermal cycling
- Excellent temperature and humidity resistance
- High Young's modulus



TYPICAL APPLICATIONS

- · Conformal coating
- Corrosion protection
- General purpose encapsulation
- Bonding
- Sealing
- Potting
- · Chip encapsulation (glob top, dam and fill)



FOCUSED ON PERFORMANCE

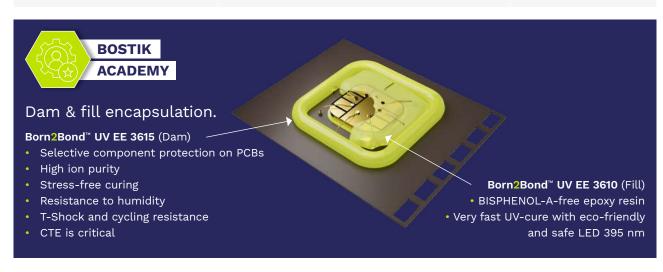
Bostik's products offer freedom of design, allowing for different shapes and configurations and support low energy curing, making them an energy-efficient solution.

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DUAL FUNCTION RANCE	UV 3174 T	UV 3174
CHEMICAL BASE	BISPHENOL-A-free epoxy resin BISPHENOL-A-free cationic epo	
CURING	UV/V	isible
APPEARANCE	Yellow/Opaque	Yellow
VISCOSITY @23 °C	2,800 mPa·s	1,040 mPa·s
THIXOTROPY	Yes	No
FLEXIBILITY	No	
SHORE HARDNESS	D 82	
TENSILE STRENGTH	41 MPa	
ELONGATION	8%	
тg	99 °C	
PACKAGING	Cartridges: 10 g and 30 g	

EMBLE				
DUAL FUNCTION RANGE		UV EE 3610	UV EE 3611	UV EE 3615
VISCOSITY @25 °C	50 rpm/Spindle 5	4,000 to 7,000 mPa·s	5,000 to 8,000 mPa·s	35,000 mPa·s
THIXOTROPIC INDE	X * @25 °C	2.1 to 2.2	2.2 to 2.6	5.0 to 5.5
DENSITY			1.4	
FILLER CONTENT (b	oy weight)	40		
UV CURING		365 to 385 nm UVA		
HARDNESS		78 to 82 D 75 to 80 D		75 to 80 D
TENSILE STRENGT	4	36 MPa		
ELONGATION		2 to 4%		< 4%
Tg		65 to 70 °C 55 to		55 to 65 °C
PACKAGING		Bottle: 1 L Cartridge: 600 cc		Cartridge: 600 cc



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

*Thixotropic index = viscosity ratio measured @ 5 rpm vs. 50 rpm/Spindle 5. Always use glasses and gloves when applying adhesives.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES UV-EPOXY 109



2K Epoxy/ UV-Acrylate



OPTICALLY CLEAR, MULTI-SUBSTRATE 2K EPOXY

Polytec PT EP 601 is an optically clear, two component epoxy adhesive of very low viscosity. It has excellent adhesion to glass, PMMA, quartz, silicone, ceramic, metals, FR4, wood and most plastics.

Polytec PT EP 601 is designed for applications in optics, fibre optics, optoelectronics, medical and semiconductor technology. It is ideal for fine cavity filling and is medical approved (USP Class VI).

This adhesive can be applied via dispensing, jet-dispensing, potting or manually.





Long Pot Life



Multiple Viscosities



Chemical Resistance



Multisubstrate Adhesion



Encapsulation

FEATURES

- Translucent
- Multiple viscosities
- · Excellent multi-substrate adhesion
- Suitable for encapsulation, bonding, potting and surface coating



TYPICAL APPLICATIONS

- Bonding & potting:
 - Optics
 - Fibre optics
 - Optoelectronics
 - Medical devicesSemiconductors
- Automotive

FOCUSED ON PERFORMANCE



Polytec PT's potting materials provide excellent protection against mechanical and environmental stress and offer superior temperature resistance compared to standard potting materials like polyurethanes. They offer unique features such as **high temperature resistance**, **low viscosity** for better penetration and flexibility options, making them particularly **suitable for demanding applications**. Additionally, they are **free from isocyanates and silicones**.

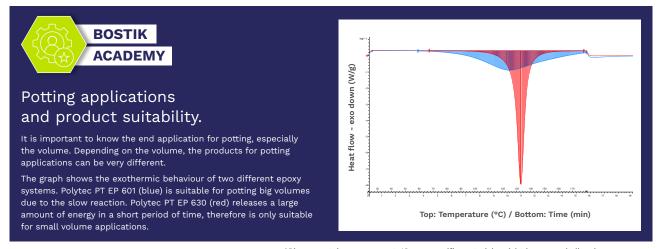
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2К ЕРОХҮ	EP 601	EP 610-2	EP 630
GENERAL CURE CONDITIONS	> 15 °C		> 100 °C
MIX RATIO BY WEIGHT	100:35	100:50	100:10
VISCOSITY MIX	460 mPa·s	830 mPa·s	2,500 mPa·s
POT LIFE	4 h	6 h	24 h
TYPICAL CURE CONDITIONS (determined by DSC)	150 °C/12 min	100 °C/90 min	150 °C/10 min
SHORE HARDNESS	D 80	A 80/D 30	D 85
GLASS TRANSITION TEMPERATURE	73 °C	10 °C	119 °C
LAP SHEAR STRENGTH (Al / Al)	37 MPa	9.3 MPa	19 MPa
ELONGATION AT BREAK	2.9%	80%	2.9%
CERTIFICATIONS	USP VI, FDA	-	ISO 10993-5, FDA
PACKAGING*	Two separate containers: 250 g, 500 g, 1 kg and 25 kg	Two separate containers: 250 g, 500 g and 1 kg	Two separate containers: 250 g, 500 g, 1 kg and 25 kg

UV-ACRYLATE**	DC 2307	
CHEMICAL BASE	Methacrylate/acrylate	
CURING	UV/Visible/Thermal	
APPEARANCE	Transparent, fluorescent	
VISCOSITY @23 °C	2,000 to 3,000 mPa·s	
THIXOTROPY	No	
FLEXIBILITY	Yes	
SHORE HARDNESS	D 44	
SUBSTRATE COMPATIBILITY	Universal [‡]	
PACKAGING	Cartridge: 30 g	

^{**}For small potting applications with low depth and good access to light, UV potting with a dual-cure mechanism for shadow areas can be used to optimise cycle times.



TDS and SDS available at born2bond.bostik.com

*Bigger container on request. *Some specific materials might be more challenging to bond than others, please consult our technical support for guidance.

Always use glasses and gloves when applying adhesives.

Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K EPOXY/UV-ACRYLATE



Thermal Conductive



THERMALLY-CONDUCTIVE, ELECTRICALLY-INSULATING EPOXY

Polytec PT TC 417-2 is a two component, thermally conductive, electrically insulating epoxy.

It is used in various thermal management applications, especially for potting of large volumes. It has excellent chemical and moisture resistance and adheres excellently to glass, metal, ceramic, FR4 and most plastics. The room temperature cure allows to bond temperature sensitive substrates very conveniently. The epoxy can be applied via dispensing or manual application.





Long Pot Life



Chemical Resistance



Multisubstrate Adhesion





Encapsulation

FEATURES

- · Thermal conductivity
- High chemical and oil resistance
- Excellent adhesion to glass, metal, ceramic, FR4 and most plastics
- · Room temperature cure
- · Suitable for temperature sensitive substrates

TYPICAL APPLICATIONS

- · Potting sensors
- Potting electronics



FOCUSED ON PERFORMANCE

Thermal conduction enables heat dissipation, protecting the finished product from premature ageing and damage, thereby **extending its lifespan**. This also opens up **possibilities for further miniaturisation**.



POLYTEC PT THERMAL CONDUCTIVE RANGE

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

	TC 417-2	VP 2040-1	VP 2041
GENERAL CURE CONDITIONS	> 15 °C	> 20 °C	> 15 °C
1K / 2K		2K	
MIX RATIO BY WEIGHT	100:13	100:10	100:5
VISCOSITY MIX	4,000 mPa·s	4,200 mPa·s	8,300 mPa·s
POT LIFE		6 h	
DENSITY MIX	1.83 g/mL	1.67 g/mL	2.65 g/mL
TYPICAL CURE CONDITIONS (determined by DSC)	80 °C/60 min		80 °C/120 min
GLASS TRANSITION TEMPERATURE	70 °C 63 °C		-
THERMAL CONDUCTIVITY	0.8 W/m.K	1.1 W/m.K	1.6 to 1.7 W/m.K
LAP SHEAR STRENGTH (Al / Al)	25 MPa	4 MPa	10 MPa
ELONGATION AT BREAK	1.1%	1%	0.7%
TEMPERATURE RESISTANCE CONTINUOUS	-55 to 180 °C	-55 to 120 °C	-55 to 180 °C
CERTIFICATIONS	-	UL94 V0 (performance test)	-
PACKAGING*	Two separate containers: 250 g, 500 g and 1 kg	Two separate containers: 250 g and 1 kg	Two separate containers: 250 g, 500 g and 1 kg



Thermal conductivity.

A good thermally conductive potting solution is a compromise between high thermal conductivity, high content of fillers and low viscosity. The addition of fillers increases the viscosity and the risk of sedimentation.

MATERIAL	~ TC in W/m.K
Air	0.025
Expanded PS	0.035 to 0.05
Plastics w/o additives	0.2 to 0.3
Thermally conductive adhesives	0.5 to 5
Glass, ceramic	1 to 30
Metals, alloys	10 to 400

Low < 0.8 W/m.K

Good ≈ 1.0 W/m.K

Excellent > 1.5 W/m.K

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Thermal Conductivity: Measure of the capability of a material to conduct heat in (W/m.K)

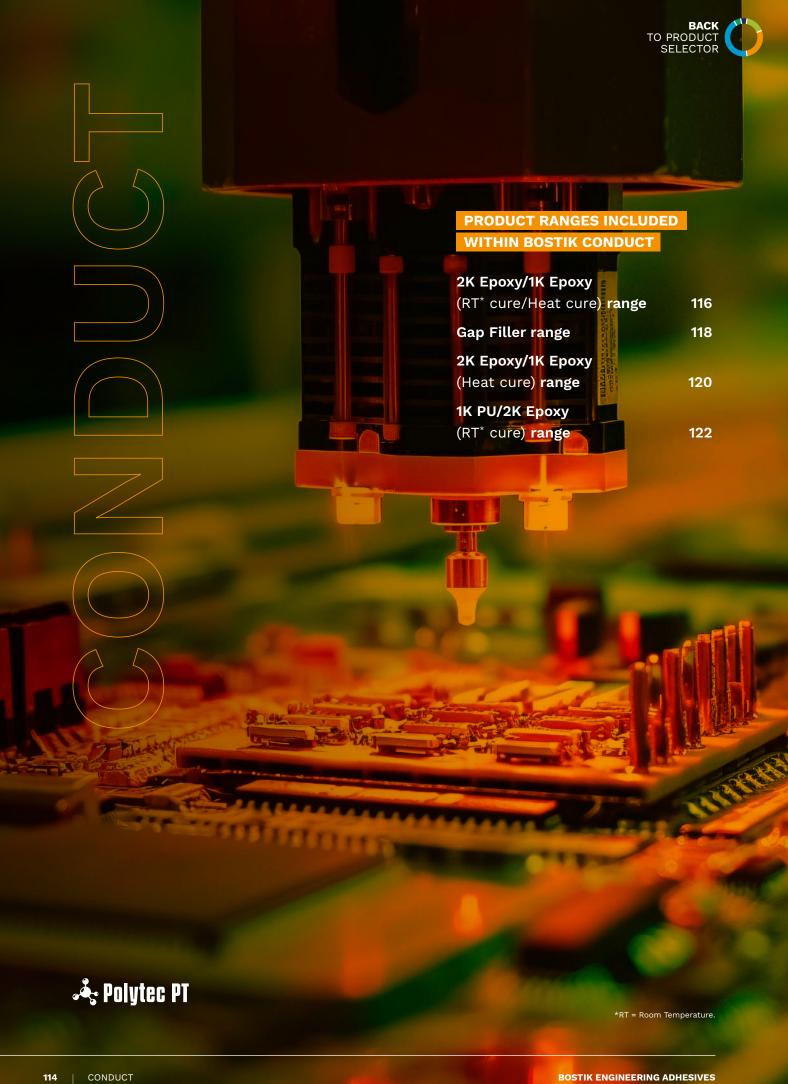
Higher thermal conductivity → Higher heat transfer

TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives. *Bigger container on request. Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES THERMAL CONDUCTIVE





Conduct

ENABLING FUNCTIONALITY BEYOND BONDING

Today's applications demand adhesives that do more than bond – they must also facilitate thermal management and lend additional product performance by conducting heat or electricity. For designers and manufacturers of these innovative products, managing thermal loads in electronics and ensuring strong, reliable electrical connections in compact assemblies are key to the overall performance of end product. Bostik's conductive adhesives meet these demands, delivering precise bonding with advanced functionality to optimise high-tech applications.

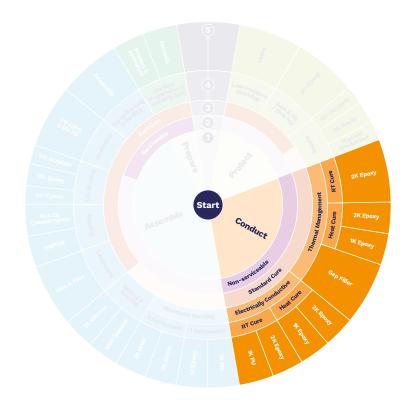






The CONDUCT section offers solutions tailored for microelectronics, automotive engineering and beyond, empowering innovation with adhesives that perform to expected levels.







2K Epoxy/1K Epoxy RT cure/Heat cure



ADHESIVES FOR EFFECTIVE ELECTRONICS THERMAL MANAGEMENT

Polytec PT TC 406 is a paste-like, two-component, thermally conductive epoxy that cures at room temperature. It is designed for thermal management in electronics, hybrid technology, sensor technology and power engineering.

This adhesive complies with UL94 V0 rating and offers good thermal resistance and excellent thermal conductivity. It can be applied directly from the side-by-side cartridge with a static mixing nozzle in a dispensing gun.





Long Pot Life

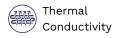


Chemical Resistance



Multisubstrate Adhesion





FEATURES

- · Easy to dispense
- High thermal conductivity
- Good thermal resistance
- Good chemical resistance
- · High bonding strength

TYPICAL APPLICATIONS

- Thermal management of:
 - Electronics
 - Sensor technology
 - Power engineering



FOCUSED ON PERFORMANCE

Bostik offers a range of thermal management products that also provide high-strength bonding, allowing, for example, a reduction of screws where thermal pastes are used in a mounted device. This combination enhances the durability and lifespan of the final product.

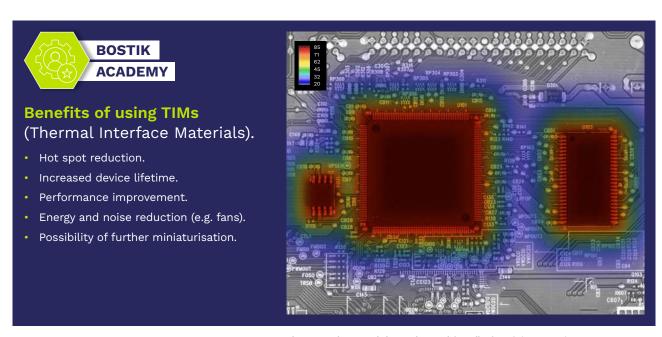
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POLYTEC PT 2K EPOXY/1K THERMAL MANAGEMENT EPOXY RANGE

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

	TC 406 (RT CURE)	TC 423-2 (RT CURE)	TC 430 (HEAT CURE)	TC 351 (HEAT CURE)
GENERAL CURE CONDITIONS	> 15 °C		> 80 °C	> 120 °C
1K / 2K	2K			1K
MIX RATIO BY WEIGHT	100:47	100:1.8	100:4	-
VISCOSITY MIX	80,000 mPa·s	87,000 mPa·s	13,000 mPa·s	65,000 mPa·s
POT LIFE	30 1	min	2 days	1 month
DENSITY MIX	1.8 g/mL	3.1 g/mL	1.35 g/mL	1.9 g/mL
TYPICAL CURE CONDITIONS (determined by DSC)	80 °C/60 min	120 °C/30 min	150 °C/15 min	150 °C/10 min
GLASS TRANSITION TEMPERATURE	65 °C	90 °C	98 °C	87 °C
THERMAL CONDUCTIVITY	2.2 W/m.K	3.1 W/m.K	0.7 W/m.K	0.8 W/m.K
LAP SHEAR STRENGTH (Al / Al)	10 MPa	14 MPa	11 MPa	20 MPa
ELONGATION AT BREAK	0.4%	0.5%	0.9%	0.7%
TEMPERATURE RESISTANCE CONTINUOUS	-55 to 180 °C	-55 to 160 °C	-55 to 250 °C	-55 to 200 °C
CERTIFICATIONS	UL94 V0 (performance test)		-	
PACKAGING*	Side by side cartridges: 50 mL and 400 mL	•	e containers: g and 1 kg	Cartridges: 10 g and 30 g Containers: 250 g, 500 g and 1 kg



TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives. *Bigger container on request. Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K EPOXY/1K EPOXY



Gap Filler



2K REMOVABLE, HIGHLY THERMALLY CONDUCTIVE GAP FILLER

GF HT 200 is a thermally conductive, silicone free and non-abrasive removable two part gap filler.

It is designed specifically for heat sinking and thermal management applications in the electronics and automotive industry by filling and levelling gaps between components that will heat up during use.





Gap Filling







Debondable





Vibration Resistant



FEATURES

- Good thermal conductivity
- · Easy to remove
- · Silicone free
- · Non-abrasive
- UL94 V0 compliant

TYPICAL APPLICATIONS

- Thermal management of battery packs and power circuits
- · Thermal connection of modules and LED



SUSTAINABILITY ENABLER

Polytec PT's gap fillers offer a significant advantage over pre-made thermal pads, which often lack gap tolerances and generate more waste. The adaptable paste-like consistency of the gap filler allows it to conform to various gaps and surfaces, **ensuring efficient thermal conduction while minimising material waste**. This flexibility makes it a **more efficient option** compared to rigid thermal pads. Additionally GF HT 200 is classified as not hazardous according to EU regulation (EC) 1272/2008 (CLP).

GAP FILLER



POLYTEC PT GAP FILLER RANGE

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

	GF HT 200	TP 300	
GENERAL CURE CONDITIONS	> 20 °C	-	
1K / 2K	2K	1K (paste)	
MIX RATIO BY WEIGHT	100:10	-	
VISCOSITY MIX	160,000) mPa·s	
POT LIFE	> 30 min	-	
DENSITY MIX	2.45 g/mL	2.1 g/mL	
CURE CONDITIONS FOR TDS VALUES	RT (20 to 28 °C)	-	
THERMAL CONDUCTIVITY	2.0 W/m.K	3.0 W/m.K	
TEMPERATURE RESISTANCE CONTINUOUS	-40 to 150 °C	-40 to 80 °C	
MIN LAYER THICKNESS @1 bar pressure	-	200 μm	
SPECIFIC ELECTRICAL VOLUME RESISTIVITY	10 ¹⁰ Ω·cm (@ 1 KV - cured 7d/RT)	50 · 10 ⁸ Ω·cm	
DIELECTRIC STRENGTH	≥ 10 kV/mm	10 kV/mm	
RECOMMENDED STORAGE TEMPERATURE	Room Temperature (do not freeze)	< 35 °C	
CERTIFICATIONS	UL94 V0 (performance test)		
PACKAGING*	Side by side cartridge: 645 g	Cartridge: 580 g, Pail: 30 kg, Drum: 300 kg	



Enhanced battery serviceability with Polytec PT removable gap filler.

- 1. Battery is removed from the car.
- 2. Defective cells/modules are identified.
- **3.** Defective cells/modules are pulled out with low forces thanks to the gap filler.
- 4. The gap filler is then easily removed.
- **5.** The gap filler is instantly re-applied at the bottom of the module.
- **6.** Modules are positioned back in the battery. The battery is ready to move back into the car.



 $\ensuremath{\mathsf{TDS}}$ and $\ensuremath{\mathsf{SDS}}$ available at $\ensuremath{\mathsf{born2bond.bostik.com}}$

Always use glasses and gloves when applying adhesives. *Bigger container on request. Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES GAP FILLER | 119



2K Epoxy/1K Epoxy **Heat cure**



ELECTRICALLY-CONDUCTIVE 2K HC EPOXY RESIN

Polytec PT EC 101 is a two component, solvent-free, heat curing epoxy resin with a long pot life and excellent electrical conductivity. It is ideal for high volume chip and substrate bonding, micro-electronic, medical, hybrids and optoelectronic applications.

It is certified to USP Class VI Biocompatibility Standards, making it suitable for medical applications. It can cure at 95 °C or in rapid cure cycles at higher temperatures. This adhesive can be applied automatically or manually.





Electrical Conductivity



Thermal Conductivity



Pot Life





Impact Resistance



FEATURES

- Excellent electrical conductivity
- Lower process temperature vs. soldering (can be used on more sensitive substrates)
- · Suitable for a variety of application methods
- Process versatility (available as 2K or frozen)

TYPICAL APPLICATIONS

- · High volume chip and substrate bonding
- Micro electronics
- Medical devices
- · Optoelectronic applications



FOCUSED ON PERFORMANCE

Polytec PT's heat cure electrically-conductive adhesives offer a robust, lead-free alternative to traditional soldering techniques. These adhesives provide similar performance to soldering but without the need to clean flux residues, making the process more efficient and environmentally friendly. They cure at lower temperatures than soldering, ensuring strong and durable bonds without altering the substrate's surface or structure.

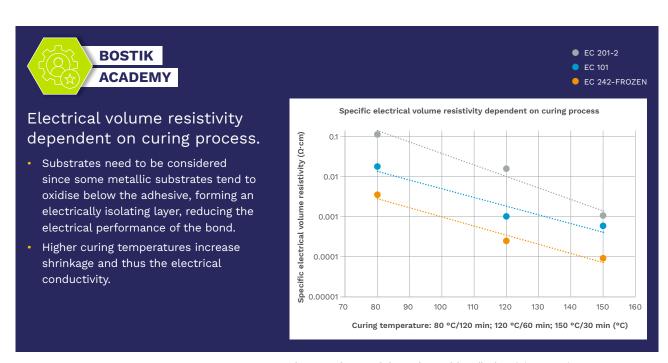
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POLYTEC PT 2K EPOXY/1K EPOXY ELECTRICALLY CONDUCTIVE RANGE

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

	EC 101 2K EPOXY	EC 201-2 2K EPOXY	EC 242-FROZEN 1K PRE-MIXED FROZEN EPOXY
GENERAL CURE CONDITIONS		> 95 °C	
MIX RATIO BY WEIGHT	100:100	100:70	-
VISCOSITY MIX	12,000 mPa·s	7,500 mPa·s	35,000 mPa·s
POT LIFE	48 h	60 min	48 h
TYPICAL CURE CONDITIONS (determined by DSC)	150 °C/3 to 4 min	150 °C/15 min	150 °C/5 min
SHORE HARDNESS	D 85	D 55	D 90
TEMPERATURE RESISTANCE CONTINUOUS	-55 to 200 °C	-55 to 170 °C	-55 to 220 °C
GLASS TRANSITION TEMPERATURE	74 °C	< 23 °C	110 °C
THERMAL CONDUCTIVITY	1.3 W/m.K	1.5 W/m.K	4.2 W/m.K
SPECIFIC ELECTRICAL VOLUME RESISTIVITY	1 to 4 · 10 ⁻⁴ Ω·cm	2 to 5 · 10 ⁻⁴ Ω·cm	5 · 10⁻⁵ Ω·cm
ELONGATION AT BREAK	0.4%	7.6%	0.4%
CERTIFICATIONS	USP VI	-	-
PACKAGING*	Two separate containers: 30 g, 250 g and 500 g	Two separate containers: 30 g, 250 g, 500 g and 1 kg	Cartridges: 14 g, 24 g, 50 g and 150 g
STORAGE TEMPERATURE	RT (2K) / -40 °C (frozen version)	RT	-40 °C (frozen version)



TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives. *Bigger container on request. Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 2K EPOXY/1K EPOXY



1K PU/2K Epoxy Room Temperature cure



ELECTRICALLY-CONDUCTIVE 1K RT PU

Polytec PT PU 1000 is a single component, room temperature curing, highly flexible polyurethane adhesive with excellent electrical conductivity.

It has been specifically developed for contacting chip modules on dual interface smart cards and is ideal for use in micro electronics, hybrid and electronic applications. It is also suitable for electrical contacting of copper surfaces. This adhesive can be applied by dispensing, jet dispensing or manually.





Electrical Conductivity



Thermal Conductivity



High Precision Dispensing



Room
) Temperature
Cure

FEATURES

- Electrically conductive
- Thermally conductive
- Room temperature curing (can be accelerated with heat)

TYPICAL APPLICATIONS

- · Electro conduction in chip to antenna bonding
- Electrical contacting of copper surfaces
- EMI/shielding
- Temperature sensitive electronics



FOCUSED ON PERFORMANCE

Polytec PT's room temperature curing electrically conductive adhesives offer a **reliable alternative to welding or soldering**, especially for bonding difficult material combinations without altering the substrate's surface or structure. These adhesives **reduce thermal stress** on components by curing at moderate or room temperatures, unlike traditional soldering. They can be applied using various methods such as dispensing, jetting, screen printing or stamping.

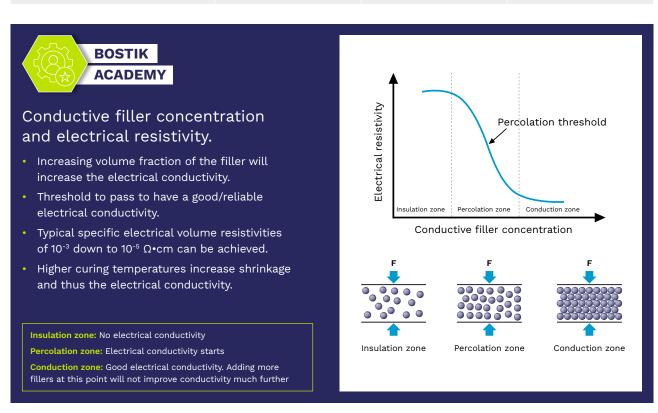
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POLYTEC PT 1K PU/2K EPOXY RANGE

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

	PU 1000	EC 244	EC 262-2-N
GENERAL CURE CONDITIONS	> 15 °C	> 23 °C	
1K / 2K	1K	2K	
MIX RATIO BY WEIGHT	-	100:10	100:100
VISCOSITY MIX	12,000 mPa·s	9,000 mPa·s	33,000 mPa·s
POT LIFE	-	15 min	90 min
TYPICAL CURE CONDITIONS (determined by DSC)	Room Temperature	80 °C/15 min	150 °C/30 min
SHORE HARDNESS	D 35	D 70	D 55
TEMPERATURE RESISTANCE CONTINUOUS	-40 to 100 °C	-40 to 150 °C	-55 to 180 °C
GLASS TRANSITION TEMPERATURE	-		40 °C
THERMAL CONDUCTIVITY	1.8 W/m.K	-	1.6 W/m.K
SPECIFIC ELECTRICAL VOLUME RESISTIVITY	2 to 4 · 10⁻⁴ Ω·cm	< 5 · 10⁻³ Ω·cm	5 · 10¹ Ω·cm
ELONGATION AT BREAK	1.2%	0.7%	1.7%
PACKAGING*	Cartridges: 5 g, 7 g, 17 g and 45 g	Two separate containers: 30 g, 250 g and 500 g	Two separate containers: 250 g, 500 g and 1 kg



TDS and SDS available at born2bond.bostik.com

Always use glasses and gloves when applying adhesives. *Bigger container on request. Cure conditions (temperature/duration) will have an influence on the above shown cured product properties. Depending on the curing temperature, the maximum curing volume may be limited due to the exothermic curing reaction.

Please get in touch with your Bostik representative to know which product is available in your territory.

BOSTIK ENGINEERING ADHESIVES 1K PU/2K EPOXY



INSIGHTS

EXPERT INSIGHTS AND KNOWLEDGE

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BOSTIK ENGINEERING ADHESIVES EXPERT INSIGHTS | 125



Dispensing for optimal performance

Efficient and accurate dispensing is vital for achieving optimal adhesive performance. We collaborate with trusted partners to support manufacturers in selecting the right systems.

This section is an overview on best practices for adhesive application, ensuring precision, consistency and efficiency across manual, semi-automated and fully automated processes. Bostik's adhesive range is designed for compatibility with a variety of dispensing methods, allowing flexibility to meet specific production requirements.



MANUAL DISPENSING

Manual dispensing is the simplest approach, ideal for small-scale operations or applications requiring precise hand control. Adhesives can be dispensed directly from containers like tubes, bottles or syringes, offering flexibility and simplicity. For more controlled flow, dispensing tools such as hand-dosing guns provide improved accuracy and ease of use.









ASSISTED MANUAL DISPENSING

Assisted manual systems bridge the gap between manual and automated processes, allowing consistent, repetitive product flow while maintaining manual control of the application.

These systems can be **mechanical guns**, **peristaltic pumps** or **pressure pumps**, with the latter able to push cartridge pistons into tanks for bigger packaging. For low viscosity products and to have an extra control of the flow, membrane valves are preferable.

For two-component (2K) adhesives, syringe guns with pressure move plungers are a practical solution.





For high-volume production, automatic dispensing systems provide the greatest efficiency and precision. These systems use robots or production lines to control both adhesive placement and flow. Advanced technologies ensure consistency, speed and adaptability to complex requirements:

1 PRESSURE AND PERISTALTIC PUMPS

Pressure and peristaltic pumps can be used the same way as in semiautomatic dispensing, but with the advantage of automatic repetitive positioning, they can dramatically accelerate the speed of production lines.

These methods also **require less complex technology** than the most advanced dispensing equipment, like volumetric or jet pumps.

2 VOLUMETRIC DISPENSING

This method provides precise control by displacing a constant volume of adhesive, **ensuring uniform flow**. It works seamlessly with **cartridges**, **containers** and **2K adhesives**, supporting applications where continuous or micro-dispensing is required. **Volumetric dispensing** is ideal for environments demanding high repeatability, such as electronics assembly and medical devices.

Screw pumps (progressive cavity pumps) are some of the most usual forms of industrial volumetric dispensing.

3 JET DISPENSING

A high-speed, contactless method tailored for micro-dispensing tasks. By rapidly "jetting" adhesive droplets, this technique achieves exceptional precision, even for intricate or miniature applications. It is particularly suited for tasks requiring non-thixotropic adhesives, such as microelectronics, where minimal volumes must be applied accurately and efficiently.

Need guidance on selecting the right dispensing system for an engineering adhesive? Talk to your local Bostik representative today.



SPECIAL REQUIREMENTS FOR DISPENSING

Certain adhesives require specific conditions during application to ensure optimal performance:

- · HEATING ELEMENTS Used for temperature adhesives to allow the flow of the product.
- **CURING LEDS** For UV-curable adhesives, integrated curing LEDs allow for precise control over curing times. This reduces waste, speeds up production and ensures strong, durable bonds.









Engineering Adhesives: is UV the future?

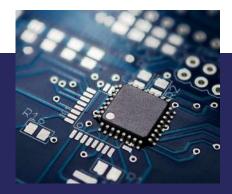
UV adhesives rely on photoinitiators that trigger a polymerisation reaction when exposed to UV light, transforming the adhesive from liquid to solid within seconds. This fast-curing mechanism eliminates the need for heat, making UV adhesives particularly suited for applications involving sensitive materials such as microchips, plastics or delicate substrates.

Modern curing systems, including LED-based UV systems, offer significant advantages over traditional mercury lamps. LEDs emit specific, controlled wavelengths of UV light, reducing energy consumption, increasing efficiency and enabling compatibility with heat-sensitive components. For example, Bostik's Born2Bond™ Light Lock adhesives use UV-visible blue light (405-420 nm) to achieve precise, energy-efficient curing in a fraction of the time, supporting high-throughput production processes.



APPLICATIONS ACROSS **INDUSTRIES**

UV adhesives are transforming production in multiple industries by combining speed, precision and strength:



ELECTRONICS

UV adhesives play a critical role in encapsulating microchips and protecting components in devices such as SIM cards, sensors and smart electronics.

Bostik's Born2Bond™ UV-Epoxy range excels in these applications, providing high-precision encapsulation and sealing solutions. These adhesives withstand

temperature variations, moisture and mechanical stresses, ensuring reliable, long-term performance.



AUTOMOTIVE In the automotive sector,

UV adhesives are used for gasketing, sealing and structural bonding, particularly in advanced electronics and lightweight assemblies. Bostik's Born2Bond™ UV Cure-In-Place Gasket (CIPG) technology delivers exceptional durability and resistance to harsh environmental conditions such as humidity and extreme temperatures, making it ideal for sealing sensors, cameras, displays and battery housings.



BORN

LUXURY GOODS

UV adhesives are highly valued in luxury product manufacturing due to their clarity and clean finish. Unlike chemically cured adhesives, which can leave residues or yellow over time, Bostik's UV adhesives remain transparent and free of blooming. This makes them perfect for high-end items like perfume bottles, jewellery and optical devices, where aesthetic quality is paramount.





ADVANCING SUSTAINABILITY AND EFFICIENCY

UV adhesives align with modern manufacturing's drive toward sustainability by reducing energy consumption, material waste and production times.

For instance, UV adhesives cure on demand, meaning they only harden when exposed to UV light. This gives manufacturers the flexibility to make adjustments during production, significantly reducing scrap from misaligned parts and production errors.

Additionally, innovations like LED-based curing systems not only improve efficiency but also reduce harmful emissions. LEDs consume far less energy compared to traditional UV lamps and do not produce ozone, contributing to safer and more sustainable production environments.



CHALLENGES AND ONGOING INNOVATION

While UV adhesives offer considerable benefits, challenges remain, such as ensuring compatibility with recycling processes and integrating seamlessly into automated production lines. Bostik addresses these challenges through continuous research and development:

- JET DISPENSING TECHNOLOGY: Enables high-speed, contactless application for precision bonding in miniature and intricate designs, such as electronics and medical devices.
- DURABILITY IMPROVEMENTS: New formulations enhance chemical, moisture and temperature resistance, ensuring that UV adhesives perform reliably even under demanding conditions.

Through ongoing advancements, Bostik continues to expand the capabilities of UV adhesives to meet evolving industrial requirements.



THE FUTURE OF UV ADHESIVES

As manufacturing processes evolve, UV adhesives remain at the forefront of innovation. Their rapid curing times, versatile applications and strong bonding properties make them indispensable for modern production. With solutions like Bostik's **Born2Bond UV-Epoxies** and **UV-Acrylates**, manufacturers can improve efficiency, reduce waste and deliver high-quality products across industries.

Through continued investment in research, Bostik is driving the development of safer, more sustainable UV adhesive solutions that meet the needs of tomorrow's manufacturing landscape.











Born2Bond™ Academy



UNLOCKING ADHESIVE EXPERTISE WITH BORN2BOND™ ACADEMY

Maximising the potential of advanced adhesives requires more than just choosing the right product. Understanding how to apply Born²Bond[™] and recently added Polytec PT adhesives effectively and appreciating the unique properties that set them apart is essential for achieving the best results.

Born2Bond™ Academy provides the training and resources needed to build this expertise through hands-on experience and in-depth technical learning.





COMPREHENSIVE TRAINING TAILORED TO YOUR NEEDS

Born2Bond™ Academy is designed to enhance understanding of adhesive technologies, applications and dispensing equipment. Our global team of experts create tailored training programs to match the specific needs of participants, ensuring relevant and practical learning.

Whether you are a distributor training your sales team or an OEM developing your technical team's adhesive expertise, **Born2Bond** Academy can build a program suited to your goals.

TRAINING INCLUDES

- Technical presentations on **Born2Bond**™ technologies
- Product introductions and practical application examples
- · Visits of Bostik Research & Development centres
- · Laboratory demonstrations and hands-on product use

Participants gain practical skills with adhesive application under expert supervision, receiving a certificate of completion at the end of the session.







Every year, manufacturers and specialists from across the globe attend Born2Bond™ Academy sessions, reflecting the growing need for adhesive knowledge across industries. The academy encourages open discussion and project-focused learning to address the specific needs of each participant.

SUPPORTING RESOURCES INCLUDE:

- · Case studies and solution guides
- · Application videos and product demos
- · Seminars, webinars and industry programs
- · Demo kits and plant surveys for practical learning

These tools ensure participants continue developing their knowledge long after the academy ends.



SPECIFIC TO YOUR INDUSTRY

Each Born2Bond™ Academy is custom-built to reflect the adhesive needs of different industries, from automotive and aerospace to medical devices and electronics. Programs range from Adhesives 101 for beginners, to advanced technical content on niche technologies and processes.

Because dispensing is crucial to bonding, lab sessions focus on using adhesives with various application equipment. Participants gain confidence in working with **Born2Bond**[™] products, learning correct techniques in a safe environment.



To enrol or learn more, scan to contact your local **Born2Bond**™ representative



BUILDING EXPERTISE FOR THE FUTURE

Born2Bond™ Academy reflects Bostik's commitment to innovation and technical excellence. By investing in adhesive education, we help companies improve their bonding processes, reduce waste and enhance product performance.







Bostik: innovation across industries

Bostik is globally recognised for its leadership in engineering adhesives, driving advancements in industries such as automotive, electronics, medical devices and luxury goods. Through its Born2Bond™, Thermelt® and Polytec PT brands, Bostik addresses recent industry challenges like bonding smaller, more complex components, accelerating curing times and reducing waste. Yet, Bostik's impact extends far beyond engineering adhesives, delivering innovative solutions for construction, assembly, mobility and durable goods manufacturing.

BUILDING STRONG FOUNDATIONS

Bostik provides smart adhesive systems for construction, supporting both new builds and refurbishment projects.

Its solutions span woodworking, waterproofing, sealing and insulation. The Sealing & Bonding range offers reliable interior and exterior adhesives for walls, floors and fenestration, ensuring durability and energy efficiency. These systems help create safe, sustainable homes while enhancing community comfort and well-being.



DURABLE GOODS

In durable goods manufacturing, Bostik's adhesives ensure products are robust and long-lasting.

Whether for household appliances, electronics or industrial machinery, Bostik solutions withstand mechanical stress, environmental conditions and daily wear. Products like **Thermelt®** adhesives and **Born2Bond™** technologies provide durable bonds, replacing traditional methods like welding in dishwashers, washing machines and handheld electronics.

Bostik adhesives also enable design flexibility, helping manufacturers create lighter, more efficient products while maintaining structural integrity. Solutions that offer thermal management and environmental resistance are critical to ensuring modern goods perform reliably over extended lifecycles. By simplifying production processes and reducing material use, Bostik supports sustainability goals.





SMART ASSEMBLY SOLUTIONS

With over a century of experience, Bostik has been a trusted partner in assembly industries worldwide.

Its adaptable adhesives are used in applications like technical textiles, transfer printing, footwear, flooring and filtration. Through ongoing research and development, Bostik continues to deliver high-performance solutions that improve operational efficiency while addressing evolving trends.



DRIVING MOBILITY FORWARD

As the automotive industry transitions to e-mobility, Bostik leads with adhesive technologies designed for structural bonding, thermal management and sustainability.

Its isocyanate-free formulations and thermal interface materials enable manufacturers to assemble batteries, sensors and displays while meeting strict environmental standards. Bostik's solutions ensure reliable performance, faster charging and greater durability, supporting the future of greener, more efficient vehicles.

A PARTNER FOR PROGRESS

From engineering adhesives to construction, assembly, mobility and durable goods, Bostik delivers versatile, sustainability-enabling solutions that align with the demands of today's industries. By leveraging Arkema's expertise in high-performance polymers, Bostik remains committed to creating adhesives that combine innovation, durability and sustainability to meet the needs of an ever-changing world.

Scan to learn more about the wide variety of markets served by Bostik



BOSTIK ENGINEERING ADHESIVES



Your 24/7 Engineering Adhesives expert has arrived

Don't get stuck on Engineering Adhesives anymore. Meet the **Born2Bond™ AI customer assistant**.

Combining smart AI with Bostik's exceptional technical know-how, our new online assistant makes choosing the right Engineering Adhesive first time easier than ever.

AI CUSTOMER ASSISTANT

BENEFITS INCLUDE

EXPERT GUIDANCE

Get immediate information on product features and comparisons.

INSTANT RESPONSE

Access product pages, Bostik Academy videos and technical and safety data sheets in seconds.

TAILORED RECOMMENDATIONS

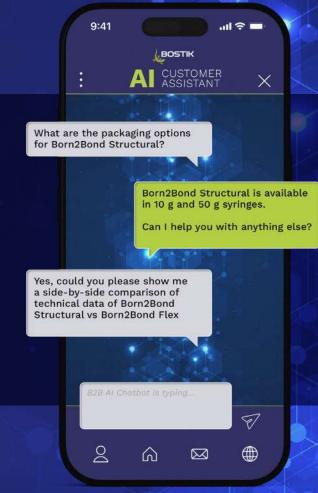
Receive tailored product suggestions based on individual preferences and needs.

ALWAYS AVAILABLE

Get multilingual Engineering Adhesives advice 24/7.

NEED MORE HELP?

Connect with **Bostik**experts seamlessly
for complex enquiries
and further
support



No matter your Engineering Adhesives challenge, the **Born2Bond™ Al customer assistant** helps simplifies the process, delivering fast, reliable support when you need it most.

TRY IT NOW

Visit Born2Bond.bostik.com

Scan to try the Bostik **Born2Bond**™ **Al customer assistant**



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Check with your local sales representative if the product is available in your region.





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