



BOSTIK

**BORN²
BOND™**

Engineering Adhesives for Audio Applications



Adhesive solutions by
ARKEMA

Bostik Born²Bond™ Engineering Adhesives enable manufacturers of audio equipment to design and produce durable, reliable and high-performing products that are also easy to maintain and repair.

'BY THE DOT' APPLICATIONS

Strong, flexible, fast curing and available in multiple viscosities and pack sizes for manual or automated dispensing, these solutions are ideal for high-precision '**by the dot**' applications and bond to all substrates used in the manufacturing of audio equipment such as plastic, metal and rubber.

They also offer excellent environmental resistance, making them the optimum choice to withstand shocks, vibrations and resonances typically found in professional and consumer audio devices and systems, microphones, hearing aids and automotive applications such as in-car entertainment.

In addition to their high-performance properties, many **Born²Bond™** solutions are low blooming, low odor and low VOC, meaning manufacturers can offer safer working conditions, maximize throughput and reduce costs – all without any compromise on design, aesthetics or sound quality.

IN-EAR HEADPHONE ASSEMBLY

1 MICROPHONE MESH ASSEMBLY

SOLUTIONS: Born²Bond™ High Performance HMPUR Adhesives (non-serviceable), UV Instant Adhesives, Instant Adhesives

2 ELECTRONICS ENCAPSULATION

SOLUTIONS: Born²Bond™ UV-Instant Adhesives, UV-Epoxy Adhesives, UV-Acrylate Adhesives

3 MAGNET BONDING

SOLUTIONS: Born²Bond™ High Performance HMPUR Adhesives (non-serviceable), UV Instant Adhesives, Instant Adhesives, XMA Structural Adhesives

4 DIAPHRAGM BONDING

SOLUTIONS: Born²Bond™ Instant Adhesives

5 FRONT TWEETER BONDING

SOLUTIONS: Born²Bond™ High Performance HMPUR Adhesives (non-serviceable)

6 ACTIVE NOISE CANCELATION MICROPHONE BONDING

SOLUTIONS: Born²Bond™ High Performance HMPUR Adhesives (non-serviceable)

7 FRONT HOUSING BONDING

SOLUTIONS: Born²Bond™ High Performance HMPUR Adhesives (non-serviceable)

8 BATTERY CELL ASSEMBLY

SOLUTIONS: Born²Bond™ UV-Instant Adhesives, Instant Adhesives, Low-Pressure Molding Hotmelt



LOUDSPEAKER ASSEMBLY

1 SPIDER TO VOICE COIL BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable), Instant Adhesives

2 SPIDER TO FRAME BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable), Instant Adhesives

3 CONE TO VOICE COIL BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable), Instant Adhesives, XMA Structural Adhesives

4 CONE TO DOME BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable), Instant Adhesives

5 MAGNET TO PLATE BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable), Instant Adhesives, XMA Structural Adhesives

6 BASKET TO PLATE BONDING

SOLUTIONS: Born2Bond™ High Performance HMPUR Adhesives (non-serviceable)

7 SURROUND TO CONE BONDING

SOLUTIONS: Born2Bond™ Instant Adhesives

8 SURROUND TO FRAME BONDING

SOLUTIONS: Born2Bond™ Instant Adhesives



9 GASKET BONDING

SOLUTIONS: Born2Bond™ UV-CIPG Gasketing (serviceable)

10 LOGO BONDING

SOLUTIONS: Born2Bond™ UV Instant Adhesives, Instant Adhesives

All **Born²Bond™ Engineering Adhesives** are suitable for small production runs using manual application, as well as semi- or fully-automated production lines.

BORN²BOND™ INSTANT and UV-INSTANT ADHESIVES



- Low-odor solutions for increased user comfort
- **Light Lock:** patented* dual-cure adhesive with 'cure-on-demand' properties for increased throughput and cure of excess material
- Vibration and shock resistance for enhanced safety and durability
- Low bloom and no yellowing for uncompromised fine finishes

BORN²BOND™ XMA STRUCTURAL ADHESIVES



- Structural, durable and fast bonding
- Suitable for applications as small as 0.5mm bead size
- High elongation for excellent resonance and shock resistance
- Color-changing properties to indicate mix quality and curing status

BORN²BOND™ HIGH PERFORMANCE HMPUR ADHESIVES



- Multi-substrate adhesion
- High temperature, humidity and chemical resistance
- Good balance between strength and elasticity
- Suitable for automated dispensing for high-precision applications

BORN²BOND™ UV-CIPG GASKETING



- Waterproofing and dustproofing for increased durability
- Resistant to temperature fluctuations and chemicals
- Extremely flexible and durable
- Suitable for automated dispensing for high-precision applications

HIGH PERFORMANCE POLYMERS

ARKEMA

Beyond Bostik's portfolio as the adhesive solutions division, Arkema also offers pioneering and sustainable high performance polymers to customers from a broad range of markets. Bio-based and recyclable **Rilsan® polyamide 11**, **Rilsan® Clear Rnew® polyamides**, and **Pebax® Rnew® elastomers** are all chosen by manufacturers for their lightness, flexibility, toughness, chemical resistance, stress cracking resistance, overall durability as well as easy processibility – making them ideal for audio applications.



For more information and to order free **Born²Bond™** samples, please visit: Born2Bond.Bostik.com



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