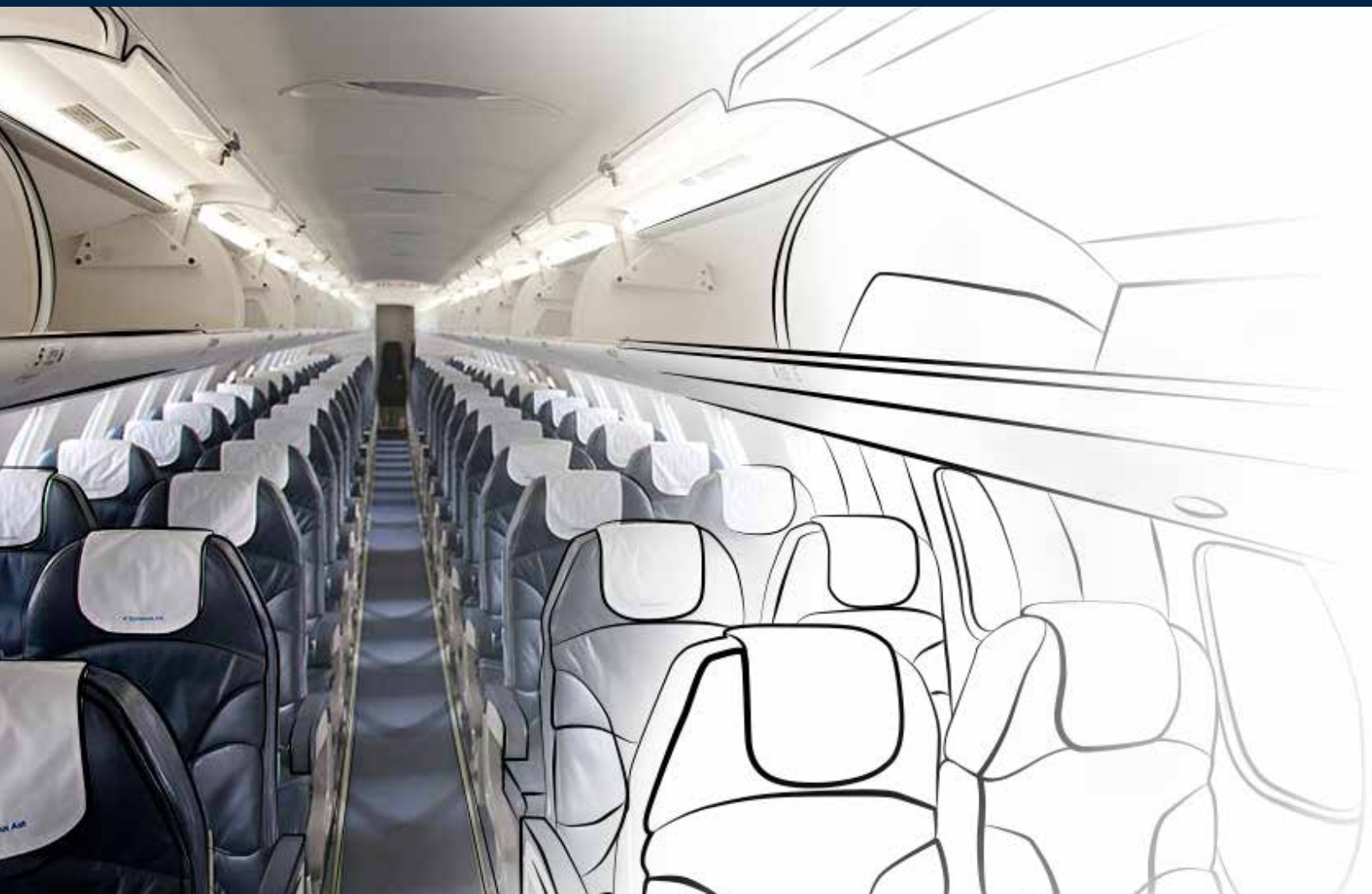




Achieving New Heights

SMART ADHESIVES FOR AIRCRAFT INTERIORS





The Bostik Difference

Bostik aerospace adhesive systems are engineered for strength, durability, safety. Our adhesives satisfy the demands of aerospace manufacturers for elasticity, torsional stiffness, temperature and environmental resistance, adhesion to dissimilar materials, and minimal surface preparation. Bostik is world-renowned in aerospace for our fire retardant adhesives. We partner with our customers to drive innovation in bonding technology while satisfying increasingly demanding FST (flame, smoke, and toxicity) requirements facing the industry.

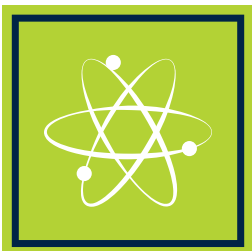
Our products are used regularly in aircraft manufacturing, primarily in nonstructural applications: interior wall panels, floors, doors, seats and even in decorative fixtures and laminates. Flame retardant film adhesives and heat-seal coatings are used to produce decorative laminates for aircraft interiors, as well as thermal and

acoustical insulation systems. Bostik manufactures film adhesives using a broad range of raw materials.

Bostik's solvent-based liquid adhesives are designed for use in aerospace interior applications such as vacuum form bonding of PVC films to wood, fiberboards, and most porous substrates. In addition to securing strong resilient anchorage to PVC, Bostik's liquid adhesives bond all types of polyolefin foams, polyester films, most plastic laminating films, foils, sheet metal surfaces and cellulotics. These adhesives, which can be applied as primers and sealants throughout the aircraft, can also be provided with fire retardant packages to meet the most demanding aircraft and industrial FST requirements.

Bostik adhesives enable aircraft manufacturers to reach new heights in strength, safety and reliability.

Smart Solutions THROUGH CUSTOM FORMULATION



Bostik is committed to partnering with aerospace manufacturers to achieve the perfect bond for their unique applications. With in-house research and development resources and deep knowledge of the challenges facing the industry, Bostik can custom formulate an adhesive solution that meets a customer's specific need. Bostik's broad and diverse adhesive technology portfolio provides versatility in our approach.

Adhesive Options



What are **FILM ADHESIVES?**

Film adhesives are adhesives that form a thin flexible layer, which can be heat activated or pressure sensitive for various applications. Bostik has 30 years of experience with solvent cast films for aerospace applications. Our products help control consistency in applications from usage variance to repeatable performance characteristics.



What are **LIQUID ADHESIVES?**

Bostik produces a wide range of liquid adhesives, from water-based technologies to solvent-based flame retardant systems. Bostik liquid adhesive systems lead the Aerospace Industry in interior adhesives, offering versatility and scale for any size application.



What are **WEB ADHESIVES?**

Web adhesives are hot melt adhesives converted into a web-like film that handles like fabric. Web adhesives from Bostik can increase productivity, offer low environmental impact, make better utilization of plant space, increase product shelf life and save on energy and operating costs. Webs offer consistent usage control while optimizing weight to performance criteria. All Bostik web adhesives are VOC free, simplifying processes and providing a safer alternative for adhesion.



Technology



What is **ELASTIC BONDING?**

Elastic bonding adhesives provide a flexible joint or seal that bonds individual components to a structural frame, allowing a dynamic attachment, which allows expansion and contraction while maintaining bond integrity. Elastic bonds are extremely durable, making them ideal for applications where a higher-temperature structural bond would break under continuous movement and stress.



What is **FLAME RETARDANCY?**

Flame retardant adhesives inhibit the spread of flame. They aid aerospace occupant safety by reducing fire, smoke and toxic fumes, allowing aerospace passengers a greater span of time to exit a high-danger situation.



What is **PRESSURE SENSITIVE ADHESION?**

Commonly known as a PSA, pressure sensitive adhesives offer a wide range of adhesion on many different substrates. From permanent bonds to removable adhesion, PSAs are a great choice for bonding panels, fabrics, foam and other interior products.



What are **LIGHTWEIGHT SOLUTIONS?**

Lightweight solutions from Bostik are essential for modern construction methods. Reducing weight in transportation vehicles translates into fuel savings and a lower overall impact on the environment. Bostik adhesives offer lightweight solutions specifically formulated to decrease weight yet provide strong, lasting bonds that keep transportation moving.



Adhesive Applications

ATTACHMENT ADHESIVES

Attachment adhesives are film or liquid adhesives options chosen by tier manufacturers, giving their components a peel and stick feature for easy interior assembly and installation.

○ F14-552 | F14-554 | F14-610

💧 LADH7527FR | LADH7560FR | LADH7590

MOUNTING ADHESIVES

Mounting adhesives are used to provide immediate bond to substrates upon contact and are used throughout the plane in various interior applications. These adhesives, although traditionally thought of as liquids, can also be provided as pre-applied pressure sensitive adhesive films.

○ F14-552 | F14-554 | F14-588 | FPA110-1FR

💧 L1096MR | L4145-14H | L4145-30H | L7132K
L7132R | L1685MC | LADH1531AC

EMBOSSING RESINS

Embossing resins provide the textured aesthetic to interior panels, bonding layers of low surface energy materials together to prevent marking, stains, and graffiti. Embossing resins can be thermoset or thermoplastic as well as reinforced with fiberglass to further improve durability in use.

○ F10-634 | F10-250

HEAT SEAL ADHESIVES

Some aerospace applications use assembly processes that require quick sealing of edges or parts with heat. Heat seal adhesives are typically coated onto those substrates and activated with heat later in the assembly process to ensure a quick, effective seal.

○ FPA110-FR1

💧 LADH300 | LADH7350

LAMINATING ADHESIVES

Laminating adhesives are used primarily for textile and fabric applications to adhere layered constructions together. Seating upholstery, decorative trims and cushions are common applications that use laminate adhesives.

○ FPA110-1FR

⊞ PE85 | PE130 | PE120 | PE165 | SPA110 | PA115
PA145 | SH4275FR-A | SPA145FR-A

SKIN TO CORE COMPOSITES

Composite panels are comprised of a core material, typically honeycomb or foam core construction, sandwiched between two outer skins. These skins can come in a variety of formats, from prepreg to decorative skins. Bostik products act as a tie layer between these substrates.

○ FPA110-1FR | F10-250 | F10-316

⊞ PE120 | SH4275 | SH4275FR-A | SPA145FR-A

ADHESIVE TYPE

○ Film Adhesive

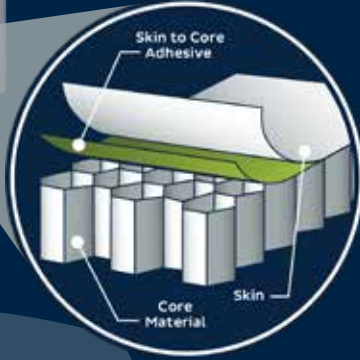
💧 Liquid Adhesive

⊞ Web Adhesive



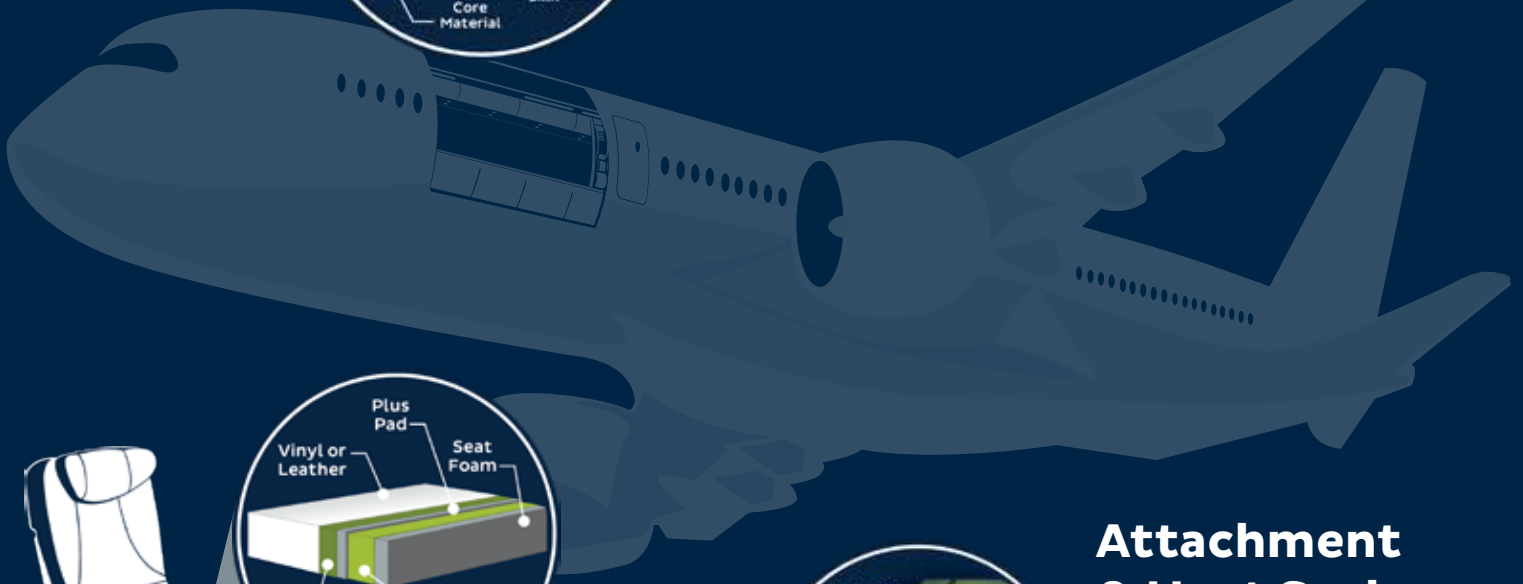
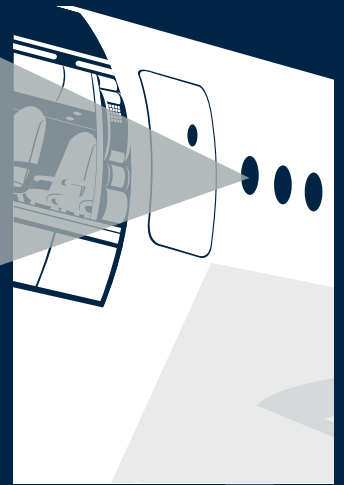


Skin to Core COMPOSITES



Contact Adhesive

Mounting ADHESIVES



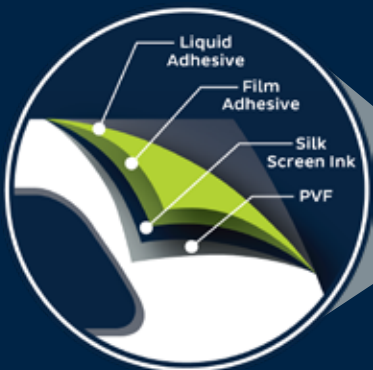
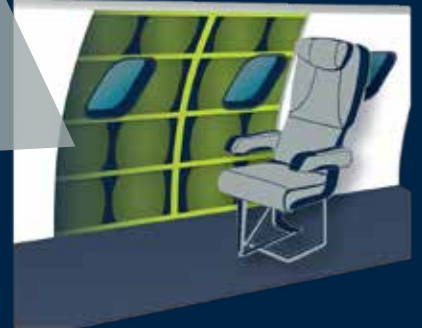
Laminating ADHESIVES



Heat Seal Adhesive

Attachment Adhesive

Attachment & Heat Seal ADHESIVES



Embossing RESINS





Film Adhesives

APPLICATIONS

Embossing Decorative Laminates | Decorative Laminate Mounting | Skin to Core Composite Assembly

HEAT ACTIVATED FILM ADHESIVES

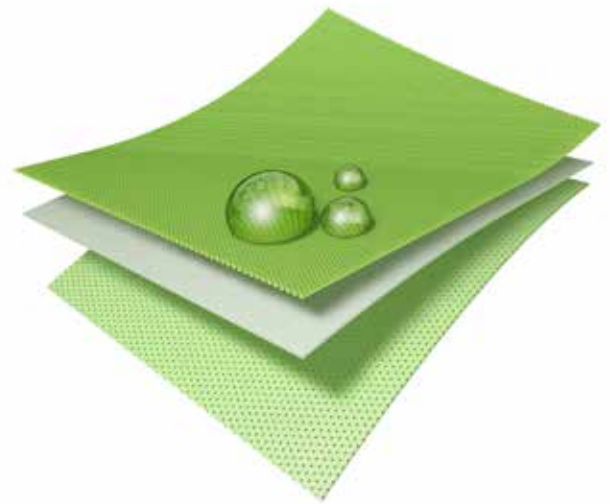
- FLAME RETARDANT THERMOSET
- NON FLAME RETARDANT THERMOSET
- FLAME RETARDANT THERMOPLASTIC

Bostik heat activated films, are thin, non-tacky solvent cast films, which allow for ease of handling and positioning prior to assembly, with thicknesses ranging from 1 to 3 mils. The adhesive is activated with heat at the desired time to bond substrates together.

PRESSURE SENSITIVE FILM ADHESIVES

- FLAME RETARDANT
- NON FLAME RETARDANT

Bostik pressure sensitive films are produced using our solvent cast process, with thicknesses ranging from 1 to 3 mils. Pressure sensitive films are ideal for pre-applied applications enabling peel and stick functionality.



SUBSTRATE COMPATIBILITY

PRODUCT	PVF	PVC	ALUMINUM	PHENOLIC	ABS	TREATED PP	FABRIC	FIBER-GLASS	RUBBER	URETHANE	METALS	PEI	PEEK
F10-250			•	•			•		•	•	•		
F10-316	•	•	•	•			•	•				•	•
F14-552	•	•	•	•	•	•	•			•	•	•	•
F14-554	•	•	•	•	•	•	•			•	•	•	•
F14-588	•	•	•	•	•	•	•			•	•	•	•
F14-610	•	•	•	•	•	•	•			•	•	•	•
F10-634	•	•	•	•				•				•	•
FPA110-1FR	•	•	•	•			•	•	•	•	•	•	•



Liquid Adhesives

APPLICATIONS

Decorative Laminate Mounting | Decorative Laminate Edge Wrapping | Hook and Loop Attachment | Honeycomb Core Splicing | Insulation and HVAC | General Bonding

MOUNTING ADHESIVES

Bostik's mounting adhesives are liquid, solvent-based adhesives that are either one- or two-part systems. They are ideal for general bonding of a large surface area or when clamping is difficult. Mounting adhesives adhere to themselves and can be applied with a spray or brush application. These adhesives are used by applying an even coat of the adhesive to each substrate, allowing it to dry, and mating the two substrates together.

HEAT SEAL ADHESIVES

Heat Seal adhesives are liquid, solvent-based adhesives that are typically roll coat applied. The adhesive is dried and then laminated at elevated temperatures to form the heat seal.

PRIMERS

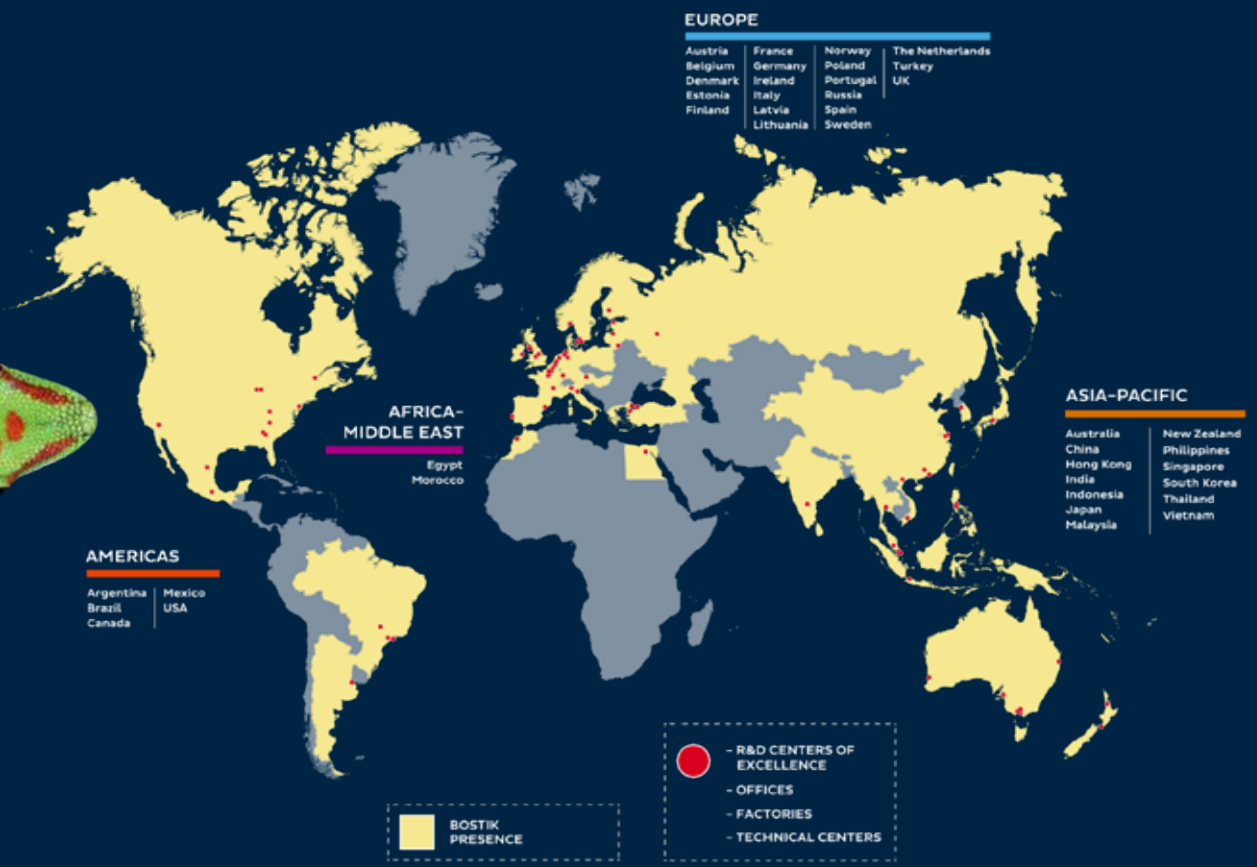
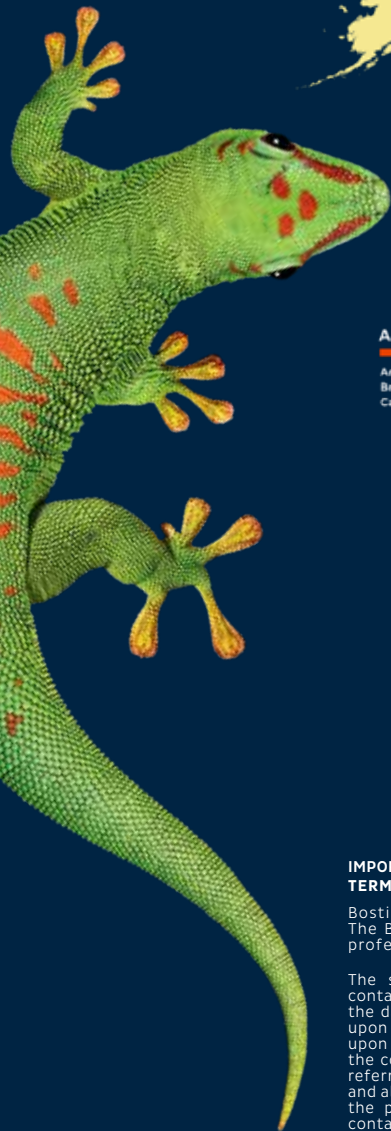
Bostik's primer is designed to enhance the adhesive anchorage to metal, plastic, glass, wood, concrete and many other rigid and semi-rigid surfaces where adhesion can be difficult. It is applied to the substrate as a pretreatment to the adhesive application.

PRESSURE SENSITIVE ADHESIVES

Bostik's pressure sensitive liquid adhesives are self-crosslinking, solvent-based, acrylic adhesives. When dried at elevated temperatures, these adhesives form a crosslinked network that is capable of forming a bond when pressure is applied.

SUBSTRATE COMPATIBILITY

PRODUCT	PVF	PVC	ALUMINUM	PHENOLIC	ABS	TREATED PP	FABRIC	RUBBER	URETHANE	METALS	PEI	PEEK
L7132K	•		•	•					•	•	•	•
7132R	•		•	•					•	•	•	•
L4145-14H			•	•				•	•	•		
L4145-30H			•	•				•	•	•		
L1096MR	•	•	•	•	•	•		•	•	•	•	•
L1007M	•	•	•	•	•	•		•	•	•	•	•
L1685MC	•	•	•	•	•	•		•	•	•	•	•
LADH1531AC	•	•	•	•	•	•		•	•	•	•	•
LADH300	•		•	•					•	•	•	•
LADH7350	•		•	•					•	•	•	•
LADH7527FR	•	•	•	•	•	•	•		•	•	•	•
LADH7560FR	•	•	•	•	•	•	•		•	•	•	•
LADH7590	•	•	•	•	•	•	•		•	•	•	•



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