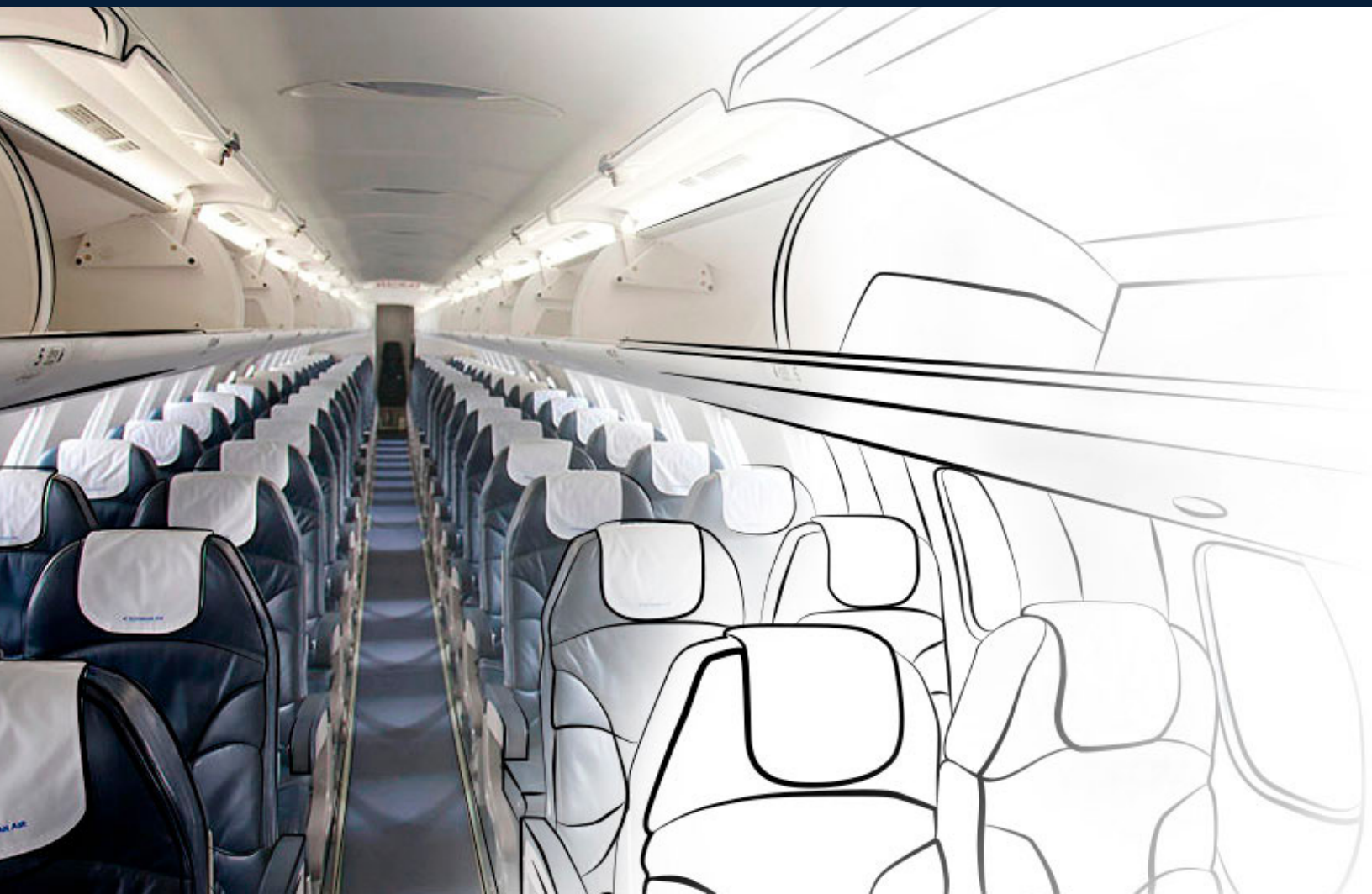




Achieving New Heights

SMART ADHESIVES FOR AIRCRAFT INTERIORS





The Bostik Difference

Bostik engineers aerospace adhesives to be strong, safe and reliable.

Many Bostik adhesives are resilient to fire where the application demands. Bostik is world-renowned in aerospace for our fire retardant adhesives. We have worked diligently to create fire resistant adhesives that ensure a higher level of safety in dangerous situations.

Our products are used regularly in aircraft construction, mostly 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.

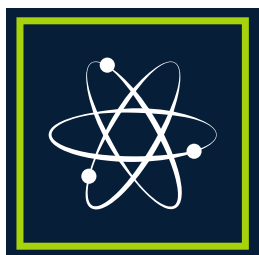
Our liquid adhesives are applied as primers and

sealants throughout the plane. Many interior plane applications use Bostik adhesives, so we have gone to great lengths to design our adhesives with excellent flame retardancy.

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 cellulosic. These adhesives can be provided with fire retardant packages to meet the most demanding aircraft and industrial requirements.

Bostik adhesives help aircraft manufacturers to achieve new heights in strength, safety and reliability.

Smart Solutions THROUGH CUSTOM FORMULATION



ADHESIVE ADDITIVES

Bostik is committed to helping aerospace manufacturers achieve the perfect bond for all interior and exterior applications. Our proprietary technologies represent 30 years of research and testing, offering high-performance solutions for most situations. Where the context demands, Bostik will consider using adhesive additives to make customized formulation adjustments to existing technology.

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

 F14-552 | F14-554 | F14-588 | F14-610

 LADH7527FR | LADH7560FR | LADH7590

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.

MOUNTING ADHESIVES

 F14-552 | F14-554 | F14-588 | SPA110

 L1096MR | L4145-14H | L4145-14G | L7132K | L7132M | L7132R | L1685MC | LADH1531AC

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.

EMBOSSING RESINS

 10-651B | F15-789 | F10-337L | F10-250

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.

HEAT SEAL ADHESIVES

 FPA110-1FR

 LADH300 | LADH7350

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.

LAMINATING ADHESIVES

 FPA110-FR

 PE85 | PE103 | PE120 | PE165 | SPA110 | PA115 | PA145 | SH4275FR-A | SPA145FR-A

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.

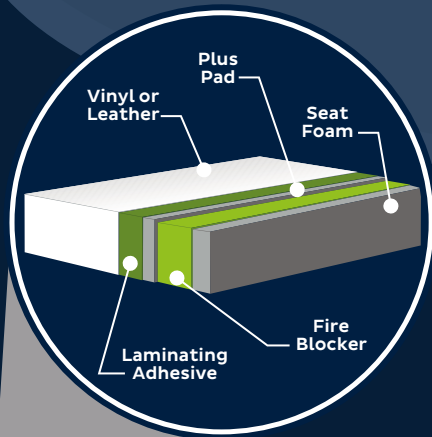
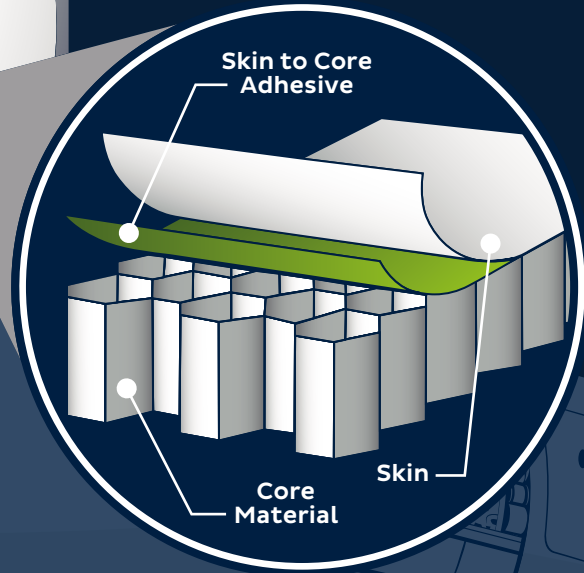
SKIN TO CORE COMPOSITES

 FPA110-1FR | F10-250 | F10-316

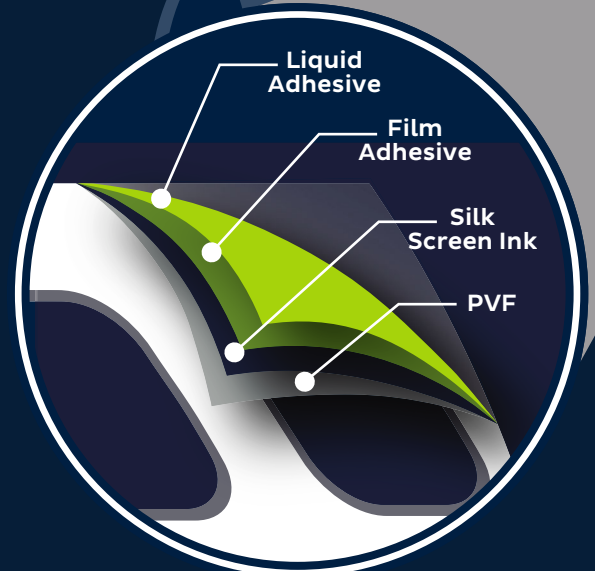
 SH4275FR-A | SPA145FR-A

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.

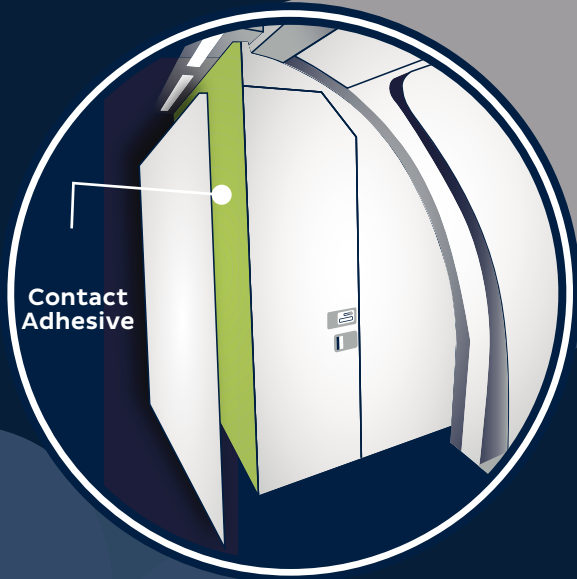
Skin to Core COMPOSITES



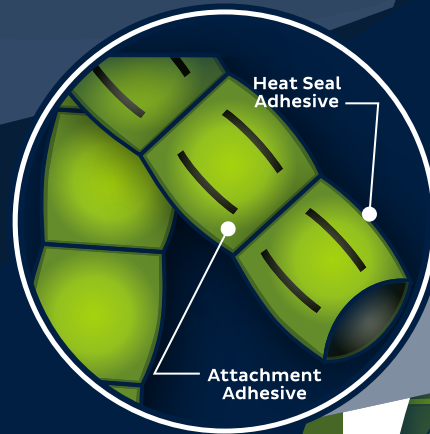
Laminate ADHESIVES



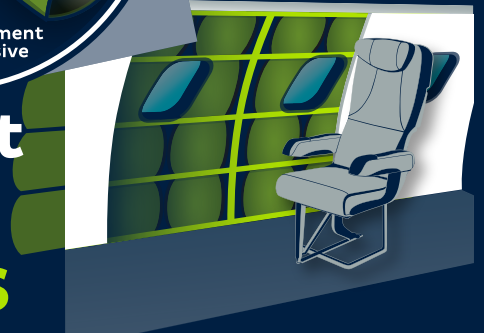
Mounting ADHESIVES



Embossing RESINS



Attachment & Heat Seal ADHESIVES





Film Adhesives

APPLICATIONS

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

HEAT ACTIVATED FILM ADHESIVES

FLAME RETARDANT THERMOSET

F10-651B | F15-789

NON FLAME RETARDANT THERMOSET

F10-250 | F10-316

FLAME RETARDANT THERMOPLASTIC

F10-337L | FPA110-FR

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

F14-552 | F14-554 | F14-588

NON FLAME RETARDANT

F14-610

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	•	•	•	•			•	•				•	•
F10-337L	•	•	•	•			•	•				•	•
F14-552	•	•	•	•	•	•	•			•	•	•	•
F14-554	•	•	•	•	•	•	•			•	•	•	•
F14-588	•	•	•	•	•	•	•			•	•	•	•
F14-610	•	•	•	•	•	•	•			•	•	•	•
F10-651B	•	•	•	•				•				•	•
F15-789	•	•	•	•				•				•	•
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

L7132K | L7132M | L7132R | L4145
L1096MR | L1685MC | LADH1531AC

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

LADH300
LADH7350

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

L1007M

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

LADH7527FR | LADH7560FR
LADH7590

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	•		•	•					•	•	•	•
L7321R	•		•	•					•	•	•	•
L7312M	•		•	•					•	•	•	•
L4145-14H			•	•				•	•	•		
L4145-30G			•	•				•	•	•		
L1096MR	•	•	•	•	•	•		•	•	•	•	•
L1007M	•	•	•	•	•	•		•	•	•	•	•
L1685MC	•	•	•	•	•	•		•	•	•	•	•
LADH1531AC	•	•	•	•	•	•		•	•	•	•	•
LADH300	•		•	•					•	•	•	•
LADH7350	•		•	•					•	•	•	•
LADH7527FR	•	•	•	•	•	•	•		•	•	•	•
LADH7560FR	•	•	•	•	•	•	•		•	•	•	•
LADH7590	•	•	•	•	•	•	•		•	•	•	•

BMS Approvals

SPECIFICATIONS

DESCRIPTION	UNIT OF MEASURE	BOSTIK PRODUCT NUMBER	TYPE OF PRODUCT	APPLICATIONS
BMS 5-127G Type II & III, Class 2	1-Gallon Kit	L7132K	Solvent-Based Adhesive	Decorative laminate bonding, edge wrapping and honeycomb core splicing
BMS 5-14 - BAC 5010 Type 40	5-Gallon Pail	L4145	Solvent-Based Adhesive	General rubber bonding
BMS 5-30 TYI - BAC 5010 Type 48	5-Gallon Pail	L4145	Solvent-Based Adhesive	Thermo-acoustical insulation, cover film bonding, general purpose contact cement
BMS 8-254 Type IV - Low Heat Release Resin	60" x 120'	F10-651B	Film Adhesive	Embossing resin to hold texture in decorative structure; improves flammability and makes overall structure pass OSU; also used to bond decorative laminate to aluminum
BMS 8-254 Type VI BAC 7362 Cloud White BAC 870 Beige BAC 7802 Blue Grey BAC 7800 Grey BAC 7801 Pepper Dust	60" x 300'	F15-789-5	Film Adhesive	Embossing resin to hold texture in decorative structure; coated on fiberglass and tougher resin system for use in high wear areas
BMS 5-91 Type IV	60" x 300'	F14-588-2	Film Adhesive	Flame Retardant PSA film for mounting decorative laminate
BMS 5-158 Type I	60" x 1500'	SPA110-4C	PA Web Adhesive	Thermoplastic non FR web adhesive used for bonding decorative laminate to interior components
BMS 5-158 Type II	59" x 1500'	FPA110-1FR	Film Adhesive	Thermoplastic FR film for bonding decorative laminate to interior components



Smart help: 1-800-726-7845

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