



Quickbond™: Fast Tacking Water-Based Contact Cement

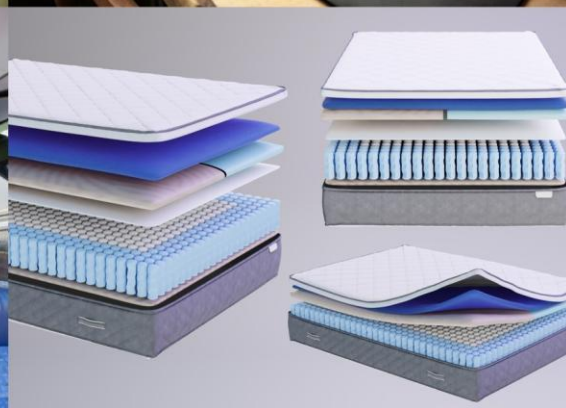
- Exceeding the industry's fastest tacking water-based adhesive
- Choices of low-temperature flexibility and long and short work life
- The high bond strength version excels over the industry's best

Quickbond™ Fast Tacking Water-Based Adhesive by Coral Industry of AIT Chemical, Inc.

AIT Chemical, Inc. Coral Industries is proud to introduce a novel water-based adhesive designed and tested to have the combination of fast tack setting (rapid initial bond strength buildup), forming an ultimate bond strength of more than 70% when compared with the industry's best-known similar product. This water-borne adhesive is non-flammable, polychloroprene-free, and has zero VOCs (per EPA test method 24).

Quickbond™ AB2250-FT, AB2655-FT, and AB2555-FT water-based adhesives are contact adhesives that achieve handling strength in less than 60 seconds or less. It has been molecularly engineered to achieve one of the highest bond strengths of over 600 psi within 60 minutes. This heat-resistant adhesive is flexible with the capability of a one-surface contact adhesive application for increasing productivity in the manufacturing environment.

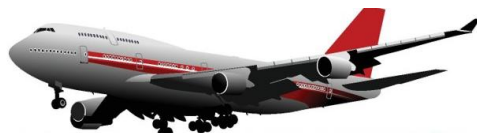
- Fast bonding for instant handling and adhesion strength to keep assembly processes moving
- Solventless, one-part adhesive requires no mixing for easy handling
- Stable bond provides heat resistance for long-term reliability
- High solids content for high bonding coverage
- Bonds a wide variety of substrates with strength and flexibility for a variety of applications



One of the challenges for the contact cement adhesive industry is to develop water-based contact adhesives that can match the efficiency, productivity, and bond strength performance of solvent-borne contact cement. AIT Quickbond™ AB2250-FT is now proven and demonstrated. To offer choices in longer open time work life, Quickbond™ AB2655-FT offers the engineered function of longer from 30 to 60 seconds to 2-5 minutes, but the bond strength build-up and final bond strength remained the same.

The high bond strength of AIT Quickbond™ AB2250-FT and AB2655-FT provides the opportunity for the industry of wood and decorative laminates to particle boards to use water-based adhesive instead of the more traditional Urea-Formaldehyde resins or solvent-borne contact cement. While water-based, the rapid bond strength build-up of Quickbond AB2250-FT eliminates the need for clamping down with the use of the traditional PVA-type water-based adhesive.

For those applications requiring extra flexibility at freezing temperatures and below, AIT Quickbond™ AB2255-FT is molecularly engineered to provide a much lower glass transition, similar to traditional rubber cements.



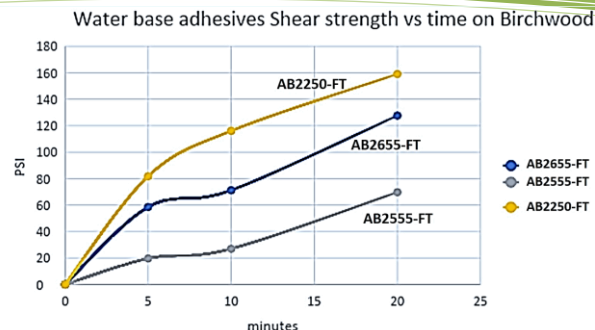


Engineered Quickbond™: Fast Tacking, Heat Resistant

- Innovative water-based hybrid polymer, designed for unparalleled ultimate bond strength to replace traditionally heat-curing adhesive
- Engineered fast tacking to enable installation efficiency and productivity
- Choices of flexibility at low temperature with high temperature resistance

Quickbond™ Novel Engineering Water-Based Adheres to Many Materials and Substrates

- First water-based engineering adhesives designed for operating at low and high temperatures
- First water-based adhesive engineered for water resistance suitable for marine operation environment
- Developed and formulated with close to 50% solids, AIT Quickbond™ is effective in bonding coverage of more than 3 times that of traditional solvent-based contact cement adhesives.
- Rapid initial build-up of holding strength allows for efficient field installation and increased productivity. AIT Quickbond™ demonstrates not only the fastest strength build-up but also significantly stronger bond strength in comparison to the known industry's best water-based adhesives. The rate of bonding and the "cured" Quickbond™ bond strength match the best solvent-borne contact adhesives.
- Quickbond™ adheres to many types of flexible foams, fabrics, canvas, plywood, particleboards, papers, and most plastics and metal surfaces. Other applicable substrates and materials include cork, felt, fiberglass insulation, thermoplastic elastomers, natural leathers, and Vinyl plasticized leathers.
- Quickbond™ adhesives are formulated to meet the GREENGUARD® Product Emission Standard for Children and Schools for low-emitting interior building materials.



Rapid initial build-up of holding strength allows for efficient field installation and increased productivity. AIT Quickbond™ demonstrates not only the fastest strength build-up but also significantly stronger ultimate bond strength.

Quickbond AB2860-FT, ab2855-FT and AB2555-FT are a series of pioneering engineering water-based adhesive with hybrid polymer technology to perform like traditional engineering adhesives.



Heat and Water Resistant Water-Based Adhesives

	Quickbond™ AB2860-FT	Quickbond™ AB2855-FT	Quickbond™ AB2555-FT
Bonding Heat Resistance	Balancing bond strength and stress absorbing from -40 °C to 150°C	Balancing bond strength and flexibility from -40 °C to 150°C	Extra-flexibility to -40 °C with heat resistance up to 85°C
Adhesive Applications	Bonding wood, wood veneer, particle board, high-pressure laminate, cardboard, paper, cork, fabric, felt, fiberglass insulation, fiberglass reinforced plastics, fibrous glass, flexible polyurethane and latex foam, polyolefines and thermoplastic elastomers and foam, polystyrene foam, vinyl plastics, plastics, glass, metals.		
Industries Served	Aircraft, Train, Automotive, Transportation, Construction, Woodworking, Appliance, Seats and Furniture, Leather Goods, Marine, Metalworking, Military, Electronics, General Industrial		
Adhesive Composition	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water
Color (Wet/Dried)	Milky cream liquid/Transparent film	Milky cream liquid/Transparent film	Milky cream paste/Transparent rubber
Work Time Before Dry	30-60 seconds	30-60 seconds	5-10 minutes
Flexibility Transition	Stress absorbing from -40°C to 150°C	Stress absorbing from -40°C to 150°C	Rubber-like flexible to -40°C
Bonding Applicability	Rigid to Flex, Rigid to Rigid (Wood or Plastic to Wood, Wood to Metal-Glass-Ceramics)	Flex to Flex; Flex to Rigid, Rigid to Rigid (Wood or Plastic to Wood, Wood to Metal-Glass-Ceramics)	Flex to Flex; Foam to Foam, (Maintaining rubber-like flexibility of the substrate)
Thermal Stability	175°C	175°C	150°C
Fire Flamability	None Flammable in Solution	None Flammable in Solution	None Flammable in Solution
Environmental	Waterborne to meet California Air Resources Board, GREENGUARD® requirements. Low VOC and comply with Ozone Transport Commission and SCAQMD standards for Electronics and General Industrial uses.		
Storage Condition	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C
Shelf Life	12 Months	12 Months	12 Months
Open Time	1-10 minutes	1-10 minutes	3-10 minutes
Tacking-Repositioning Time (Wood to Wood)	30-60 seconds	30-60 seconds	5-10 minutes
Availability in Bulk Sizes	1, 5, and 55 Gallon	1, 5, and 55 Gallon	1, 5, and 55 Gallon
Consumer DIY Sizes	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle

al Industry © 2025 to present, V2.0) | 18-20 Roszel Rd, Princeton, NJ 08540, USA

Tel: 1-609-799-9388 Fax: 1-609-799-9308 | www.aitchemical.com | ait@aitchemical.com

Quickbond™: Fast Tacking, Specialty Foam Bonding

- Unparalleled productivity and field installation ease without clamping
- Adhesion build-up and ultimate bond strength excel over solvent-based adhesives and all the known best water-based adhesives
- Choices of speeds in adhesion, flexibility at low temperatures, and strength



Foam Bonding Water-Based Heat Resistant Flexible Adhesives

	Quickbond™ AB2855-FT	Quickbond™ AB2655-FT	Quickbond™ AB2555-FT
Special Attributes	Quick tacking, high-strength bonding with flexibility, good water and heat resistance	Quick tacking, flexibility with strength, good water and heat resistance	Extra-flexible adhesive, maintains flexibility to -40°C with good water and heat resistance
Adhesive Applications	Bonding flexible polyurethane and latex foam, polyolefines and thermoplastic elastomers and foam, polystyrene foam, wood, wood veneer, particle board, high-pressure laminate, cardboard, paper, cork, fabric, felt, fiberglass insulation, fiberglass reinforced plastics, fibrous glass, vinyl plastics, plastics, glass, metals.		
Industries Served	Aircraft, Train, Automotive, Transportation, Construction, Woodworking, Appliance, Seats and Furniture, Leather Goods, Marine, Metalworking, Military, Electronics, General Industrial		
Adhesive Composition	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water
Color (Wet/Dried)	Milky cream liquid/Transparent	Milky cream liquid/Transparent	Milky cream paste/Transparent
Work Time Before Dry	30-60 seconds	30-60 seconds	60-120 seconds
Flexibility Transition	Flexible to -5°C	Flexible to -20°C	Flexible to -40°C
Bonding Applicability	Flex to Rigid, Rigid to Rigid (Foam to Foam, Foam to Plastic, Wood, Metal, Glass, Ceramics)	Flex to Flex; Flex to Rigid, Rigid to Rigid (Foam to Foam, Foam to Plastic, Wood, Metal, Glass, Ceramics)	Flex to Flex; Flex to Rigid, Rigid to Rigid (Foam to Foam, Foam to Plastic, Wood, Metal, Glass, Ceramics)
High Temperature Limit	150°C	150°C	150°C
Fire Flamability	None Flammable in Solution	None Flammable in Solution	None Flammable in Solution
Environmental	Waterborne to meet California Air Resources Board, GREENGUARD® requirements. Low VOC and comply with Ozone Transport Commission and SCAQMD standards for Electronics and General Industrial uses.		
Storage Condition	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C
Shelf Life	12 Months	12 Months	12 Months
Open Time	1-10 minutes	1-10 minutes	3-10 minutes
Tacking-Repositioning Time (Wood to Wood)	30-60 seconds	120-180 seconds	120-180 seconds
Availability in Bulk Sizes	1, 5, and 55 Gallon	1, 5, and 55 Gallon	1, 5, and 55 Gallon
Consumer DIY Sizes	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle



The high bond strength of AIT Quickbond AB2250-FT, AB2655-FT and AB2255-FT provides the opportunity for the industry of wood and decorative laminates to use water-based adhesive instead of the more traditional Urea-Formaldehyde resins or solvent-borne contact cement.

While water-based, the rapid bond strength build-up of Quickbond AB2250-FT and AB2655-FT eliminates the need for clamping down with the use of the traditional PVA-type water-based adhesive.



Recommended Applications for Quickbond™ AB2655-FT and AB2555-FT

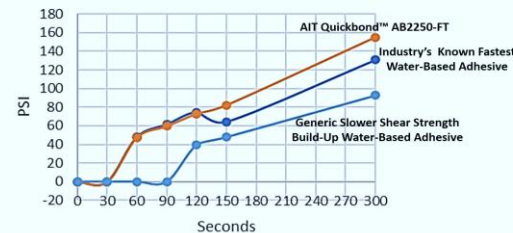
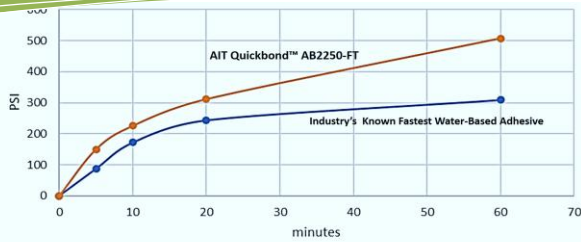
AIT Quickbond™ AB2655-FT and AB2555-FT are water-based adhesives that can be easily applied by spraying, brushing, and rolling directly on the substrates to be bonded. One coat instead of coating adhesive on both sides should be sufficient for bonding most substrate surfaces. With the special viscosity engineering of the Quickbond™ AB2655-FT, when the edges of the bonding areas are covered along with overall areas of 80%, effective bonding for the assembly is more than adequate. In the case of porous substrates, additional coats may be required. Additional coats can be applied after the initial coat is dry to the touch.

The following are some of the common uses of the Quickbond™ AB2655-FT:

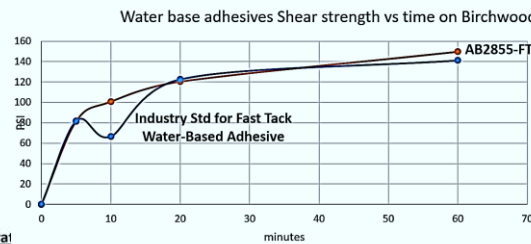
- Bonding of molded foams
- Architectural and decorative paneling
- Countertop, wood veneer, and other decorative laminates bonding to particleboard
- Acoustical foam isolation installation
- Pipe heat insulation foam wrapping
- Heat-resistant, high-temperature insulation bonding

Quickbond™: Balancing Flexibility with Strength

- Exceeding the industry's fastest tacking water-based adhesive
- Choices of low-temperature flexibility and long and short work life
- The high bond strength version excels over the industry's best



Comparative Shear Strength Build-Up of Water-Based Adhesive on Birch Wood Substrate



Quickbond™ Water-Based Adhesive Availability

AIT Quickbond™ AB2250-FT and its sister products, AB2655-FT and AB2855-FT, are available in 16 oz squeeze bottles for field installation applications, and 1, 5, and 55 gallon packaging for industrial production use.

About AIT Chemical, Inc. and Coral Industries

AIT Chemical, Inc. is a company of AI Technology, Inc. Founded in 1981, AI Technology, Inc. (AIT) is headquartered in Princeton, NJ, with additional facilities in Princeton Junction, NJ. Coral Industry, Inc., founded in 1968, operates in Los Angeles, CA, and was acquired by AIT Chemical Inc. in 2024.

Coral Industries pioneered many water-based adhesives as well as many solvent-borne contact adhesives used in aircraft and transport seat assembly, furniture assembly, etc. Many of their adhesives are used in Rose Parade floats and other interesting applications.

AIT Chemical, Inc. manufactures Quickbond™ water-based adhesives in its Los Angeles, California, Princeton Junction, NJ, and Shenzhen, China facilities.

Fast-Tacking Water-Based Adhesives for Automated Manufacturing and Field Installation

	Quickbond™ AB2250-FT	Quickbond™ AB2555-FT	Quickbond™ AB2655-FT
Special Attributes	Fastest tacking water-based adhesive with 2-3 times higher bond strength in comparison to the industry standard	Fastest tacking water-based adhesive with creep resistance and highly flexible in comparison to the industry standard	Fast-tacking, highest temperature bond strength and water resistance in the water-based adhesive industry
Adhesive Applications	Bonding wood, wood veneer, particle board, high-pressure laminate, cardboard, paper, cork, fabric, felt, fiberglass insulation, fiberglass reinforced plastics, fibrous glass, flexible polyurethane and latex foam, polyolefines and thermoplastic elastomers and foam, polystyrene foam, vinyl plastics, plastics, glass, metals.		
Industries Served	Aircraft, Train, Automotive, Transportation, Construction, Woodworking, Appliance, Seats and Furniture, Leather Goods, Marine, Metalworking, Military, Electronics, General Industrial		
Adhesive Composition	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water	Single Component, Approximately 50% Polymer in 50% Water
Color (Wet/Dried)	Milky cream/Transparent	Milky cream/Transparent	Milky cream/Transparent
Work Time Before Dry	30-60 seconds	30-60 seconds	120-180 seconds
Flexibility Transition	Flexible to -5°C	Flexible to -40°C	Flexible to -20°C
Bonding Applications	Flex to Flex; Flex to Rigid, Rigid to Rigid (Wood or Plastic to Wood, Wood to Metal-Glass-Ceramics)	Flex to Flex; Foam to Foam, (Maintaining rubber-like flexibility of the substrate)	Flex to Flex; Flex to Rigid, Rigid to Rigid (Wood or Plastic to Wood, Wood to Metal-Glass-Ceramics)
High Temperature Limit	150°C	150°C	Maintaining Bond Strength at High Temperatures to 175°C
Fire Flammability	None Flammable in Solution	None Flammable in Solution	None Flammable in Solution
Environmental	Waterborne to meet California Air Resources Board, GREENGUARD® requirements. Low VOC and comply with Ozone Transport Commission and SCAQMD standards for Electronics and General Industrial uses.		
Storage Condition	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C	Non-Freezing and 5°C to 50°C
Shelf Life	12 Months	12 Months	12 Months
Open Time	1-10 minutes	1-10 minutes	3-10 minutes
Tacking-Repositioning Time (Wood to Wood)	30-60 seconds	120-180 seconds	120-180 seconds
Availability in Bulk Sizes	1, 5, and 55 Gallon	1, 5, and 55 Gallon	1, 5, and 55 Gallon
Consumer DIY Sizes	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle	4 oz and 16 oz Squeeze Bottle

Quickbond™ Water-Based Adhesives Availability

AIT Quickbond™ AB2250-FT and its sister products, AB2850-FT, AB2655-FT and AB2555-FT, are available in 16 oz squeeze bottles for field installation applications. For volume application, they are available in 1, 5, and 55-gallon packaging.