



Isogrip™ Adhesives

FOR STRUCTURAL ASSEMBLY



Bostik, an Arkema company, manufactures industrial adhesives and sealants designed to improve operational efficiencies and increase end-use performance around the globe. By working closely with customers, our experts are able to understand their evolving needs and formulate our solutions to make it easier to accomplish their goals and address tomorrow's problems today.

Isogrip adhesives are user-friendly adhesives that chemically react with the presence of moisture to form a thermosetting bond. Made up of one component, 100 percent solids, they contain no VOCs or formaldehyde and are non-flammable.

In a typical application, adhesives are coated onto a core material and misted with a controlled amount of water. The core is then covered by the skin substrates and a stack is made. The stack is then pressed for a specific period of time. During the press cycle, the moisture reacts with the adhesive to cure.

When cured, these ICC-ES recognized adhesives offer excellent resistance to water, heat, chemicals and humidity.

Isogrip adhesives provide costs savings in both labor and materials and are easy to handle, use, clean and dispose of and will work on most substrates.

APPLICATION AND CURING METHODS

Isogrip adhesives can be applied via hand roller, roll coater, extruder or swirl coater. They can be curing via hot press, nip roll or cold press.

Isogrip urethane adhesives react chemically in the presence of moisture to form thermosetting bonds. In a typical application, Isogrip adhesives are coated onto a core material and misted with a controlled amount of water. The core is then covered by a skin substrate, and a stack of "skinned" cores is made. The stack is pressed for a specific period of time during which the moisture reacts with the adhesive to cure and create a permanent bond. It is easily cleaned up using a dibasic ester solvent.

APPLICATIONS

Because of their high performance bond strength and excellent resistance to weathering and heat, Isogrip adhesives are recognized and used in a number of structural applications.

STRUCTURAL INSULATED PANELS

- ICC-ES AC05 recognized adhesive for laminated panels of oriented strand board (OSB) skins to expanded polystyrene foam
- This adhesive performs well with other substrates and foams, but must be qualified by manufacturers

PATIO ENCLOSURES

- ICC-ES AC05 recognized adhesive for laminated panels of coated metal and plastic foam
- Finished panels offer superior strength and span performance

RV PANEL, GARAGE DOOR, ARCHITECTURAL PANEL

- Bonds laminated panels of coated metal or reinforced plastic composites to multiple foam types
- Offers a deep foam penetration for strong and durable bonds

EXTERIOR ENTRY DOORS

- Bonds laminated door components such as wood, metal and composite skins to expanded polystyrene cores and wood stiles and rails
- Listed by Intertek as a certified fire door component

PRODUCT	DESCRIPTION	PRODUCT SPECIFICATIONS															
2000	<ul style="list-style-type: none"> - Excellent adhesion on coated or primer backed metals - Developed for patio enclosures (primed aluminum skins to expanded polystyrene cores) - Other bondable substrates include: OSB, particleboard, plywood, hardboard, FRP and vinyl - ICC-ES code recognition - Winter and summer versions available 	<table border="1"> <thead> <tr> <th>Product</th> <th>Closed Assembly</th> <th>Press Time</th> </tr> </thead> <tbody> <tr> <td>2020D</td> <td>45 min</td> <td>3.5 hrs</td> </tr> <tr> <td>2030D</td> <td>30 min</td> <td>2.5 hrs</td> </tr> </tbody> </table> <p>Conditions: Room temperature (68°F), 20-95% relative humidity</p>	Product	Closed Assembly	Press Time	2020D	45 min	3.5 hrs	2030D	30 min	2.5 hrs						
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2020D	45 min	3.5 hrs															
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3000	<ul style="list-style-type: none"> - Versatile bond performance on a number of substrates - Best choice for composite materials such as ABS, HDPE, HDPP, FRP and Kydex - Primer coat necessary for metal applications to achieve structural adhesion - Developed for architectural panels, patio enclosures, exterior entry doors, structural insulated panels (SIPs) - ICC-ES code recognition - Winter and summer versions available 	<table border="1"> <thead> <tr> <th>Product</th> <th>Closed Assembly</th> <th>Press Time</th> </tr> </thead> <tbody> <tr> <td>3020D</td> <td>35 min</td> <td>2 hrs</td> </tr> <tr> <td>3030D</td> <td>30 min</td> <td>1 hrs</td> </tr> </tbody> </table> <p>Conditions: Room temperature (68°F), 20-95% relative humidity</p>	Product	Closed Assembly	Press Time	3020D	35 min	2 hrs	3030D	30 min	1 hrs						
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4000	<ul style="list-style-type: none"> - Rapid curing performance for continuous processing applications - Excellent adhesion performance on coated metal skins, various wood substrates and expanded polystyrene cores - Developed for patio enclosures, exterior entry doors, structural insulated panels (SIPs), refrigerated cooler panels - ICC-ES code recognition for 4010 and 4020 - Highly catalyzed products; require bead extrusion 	<table border="1"> <thead> <tr> <th>Product</th> <th>Closed Assembly Time</th> <th>Press Time</th> </tr> </thead> <tbody> <tr> <td>4005</td> <td>6 min</td> <td>8 min</td> </tr> <tr> <td>4010</td> <td>2.3 min</td> <td>3.5 min</td> </tr> <tr> <td>4020</td> <td>2.45 min</td> <td>3 min</td> </tr> <tr> <td>4030</td> <td>2.2 min</td> <td>3 min</td> </tr> </tbody> </table> <p>Conditions: Room temperature (68°F), 20-90% relative humidity</p>	Product	Closed Assembly Time	Press Time	4005	6 min	8 min	4010	2.3 min	3.5 min	4020	2.45 min	3 min	4030	2.2 min	3 min
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4010	2.3 min	3.5 min															
4020	2.45 min	3 min															
4030	2.2 min	3 min															
5000	<ul style="list-style-type: none"> - Offers the best combination of closed assembly time and press time - One adhesive for coated metals and composite materials, including ABS, HDPE, HDPP, FRP, vinyl and Kydex - Developed for the patio enclosure market – provides excellent structural adhesion performance - ICC-ES code recognition 	<table border="1"> <thead> <tr> <th>Product</th> <th>Closed Assembly</th> <th>Press Time</th> </tr> </thead> <tbody> <tr> <td>5040</td> <td>55 min</td> <td>75 min</td> </tr> <tr> <td>5050</td> <td>40 min</td> <td>60 min</td> </tr> </tbody> </table> <p>Conditions: Room temperature (68°F), 20-95% relative humidity</p>	Product	Closed Assembly	Press Time	5040	55 min	75 min	5050	40 min	60 min						
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5040	55 min	75 min															
5050	40 min	60 min															
7000	<ul style="list-style-type: none"> - Excellent adhesion performance on FRP and coated metal - Long term durability in winter and summer conditions - Developed for exterior entry doors, and FRP and coated metal skins laminated to expanded polystyrene foam cores 	<table border="1"> <thead> <tr> <th>Product</th> <th>Closed Assembly Time</th> <th>Press Time</th> </tr> </thead> <tbody> <tr> <td>7200</td> <td>40 min</td> <td>3 hrs</td> </tr> <tr> <td>7250</td> <td>35 min</td> <td>2 hrs</td> </tr> <tr> <td>7300</td> <td>35 min</td> <td>1.5 hrs</td> </tr> </tbody> </table> <p>Conditions: Room temperature (68°F), 20-90% relative humidity</p>	Product	Closed Assembly Time	Press Time	7200	40 min	3 hrs	7250	35 min	2 hrs	7300	35 min	1.5 hrs			
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