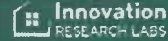




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ESR-1140

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Reissued 07/2017
This report is subject to renewal 07/2018.

DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES
SECTION: 06 05 23.10—ADHESIVES

REPORT HOLDER:

ASHLAND SPECIALTY CHEMICAL COMPANY

**5200 BLAZER PARKWAY
DUBLIN, OHIO 43017**

EVALUATION SUBJECT:

ISOGRIP® ADHESIVES:

SP 2000D SERIES: SP 2020D, SP 2025D, SP 2030D

SP 3000D SERIES: SP 3020D, SP 3030D

SP 4000D SERIES: SP 4010D SP 4020D

SP 5000D SERIES: SP 5000D, SP 5040D, SP 5050D, AND SP 5100D



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ICC-ES Evaluation Report

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Reissued July 2017

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DIVISION: 06 00 00—WOOD, PLASTICS AND COMPOSITES

Section: 06 05 23.10—Adhesives

REPORT HOLDER:

**ASHLAND SPECIALTY CHEMICAL COMPANY
5200 BLAZER PARKWAY
DUBLIN, OHIO 43017**

EVALUATION SUBJECT:

ISOGRIP® ADHESIVES:

SP 2000D SERIES: SP 2020D, SP 2025D, SP 2030D

SP 3000D SERIES: SP 3020D, SP 3030D

SP 4000D SERIES: SP 4010D, SP 4020D

SP 5000D SERIES: SP 5000D, SP 5040D, SP 5050D, and SP 5100D

1.0 EVALUATION SCOPE

Compliance with the following codes:

- 2009 and 2006 *International Building Code*®
- 2009 and 2006 *International Residential Code*®
- 2013 *Abu Dhabi International Building Code (ADIBC)*†

†The ADIBC is based on the 2009 IBC. 2009 IBC code sections referenced in this report are the same sections in the ADIBC.

Property evaluated:

Structural adhesives

2.0 USES

Isogrip® adhesives are used in the fabrication of laminated sandwich panels.

3.0 DESCRIPTION

The Isogrip® adhesives are one-part polyurethane adhesives used for bonding gypsum wallboard, mineral board, oriented strand board, plywood, fiberglass or metal to core materials of polystyrene and polyurethane foam plastics, and paper honeycomb materials, in laminated sandwich panel construction. These are Type II, Class 2, adhesives for structural use where high resistance to moisture is required in roof, wall and floor sandwich panels subject to sustained loadings.

The adhesives are available in 5-gallon (18.9 L) steel pails, 55-gallon (208 L) steel drums and 330-gallon (1250 L) totes. When stored in original unopened containers at temperatures between 45°F and 75°F (7.2°C and 23.9°C), the products have a shelf life of 90 days.

4.0 INSTALLATION

Surfaces to be bonded shall be clean and dry. Dust, oil, grease, water, paint and any other contaminants shall be removed prior to application of the adhesive. The amount of adhesive to be applied to contact surfaces must comply with the adhesive manufacturer's instructions. To ensure adhesion, the surfaces must be placed under pressure in accordance with the published instructions of Ashland Specialty Chemical Company.

The adhesives must be applied to one of the substrates to be bonded using roll coating, extruding techniques, or a swirl coater. The adhesives must be misted with water prior to covering with the other substrate being bonded.

Use of the adhesives must be in accordance with the provisions of the "ISOGRIP Adhesive Laminating Guide for Structural and Architectural Panels," as follows:

- ISOGRIP® SP 2020D, dated June 2000
- ISOGRIP® SP 2025D, dated April 2005
- ISOGRIP® SP 2030D, dated June 2000
- ISOGRIP® SP 3020D, dated December 1999
- ISOGRIP® SP 3030D, dated June 2000
- ISOGRIP® SP 4010D, dated May 1999
- ISOGRIP® SP 4020D, dated June 2000
- ISOGRIP® SP 5000D, dated April 2003
- ISOGRIP® SP 5040D, dated July 2003
- ISOGRIP® SP 5050D, dated July 2003
- ISOGRIP® SP 5100D, dated April 2003

5.0 CONDITIONS OF USE

The ISOGRIP® SP 2000D, SP 3000D, SP 4000D, and SP 5000D series adhesives described in this report comply with, or are suitable alternatives to what is specified in, those codes listed in Section 1.0 of this report, subject to the following conditions:

- 5.1 The adhesive system must be applied and cured in accordance with this report and the manufacturer's instructions.
- 5.2 The adhesive application is limited to use in sandwich panels specifically recognized in an ICC-ES evaluation report.

5.3 Based on creep test results, the maximum allowable design shear stress for the ISOGRIP polyurethane adhesive is 100 lbf/in² (689 kPa).

5.4 The adhesives are manufactured under a quality control program with inspections conducted by ICC-ES.

6.0 EVIDENCE SUBMITTED

Data in accordance with the ICC-ES Acceptance Criteria for Sandwich Panel Adhesives (AC05), dated June 2009.

7.0 IDENTIFICATION

Each container of adhesive has a label noting the date of manufacture, the ICC-ES report number (ESR-1140), the product name and the name of the manufacturer (Ashland Specialty Chemical Company).