

SECTION 09 00 50

SPRAY APPLIED FLOOR ADHESIVE

CSI 3-PART **SHORT-FORM** GUIDE SPECIFICATION:
USE FOR OUTLINE OR DD SPECIFICATION ISSUES.
EDIT TO SUIT PROJECT

PART 1 - GENERAL

1.1 SUMMARY

- A. Work of this Section consists of spray adhesive, and includes but is not limited to the following:
 - 1. Spray-Lock® 0.02 g/mL VOC Spray Adhesive for Flooring
 - 2. Substrate preparation
 - 3. Substrate testing
- B. Related Documents and Sections: Examine Contract Documents for requirements that directly affect or are affected by Work of this Section. A list of those Documents and Sections include, but is not limited to the following:
 - 1. Drawings and general provisions of the Contract, including General and Supplementary Conditions and DIVISION 01 General Requirements, and DIVISION 01 through 9 Specification Sections, apply to this Section.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination in accordance with DIVISION 01, and as follows:
 - 1. Coordinate concrete slab or concrete topping finish in accordance with DIVISION 03, and as required by DIVISION 09 finish flooring material manufacturer.
 - 2. Coordinate wood-based panel underlayment in accordance with DIVISION 06, and as required by DIVISION 09 finish flooring material manufacturer.

1.3 SUBMITTALS

- A. Product Data: Submit manufacturer's printed descriptions of materials, components and systems; performance criteria; use limitations; preparation instructions and recommendations; storage and handling requirements and recommendations; and installation methods.
- B. Quality Assurance Submittals: Certificates, and Test and Evaluation Reports.
- C. Sustainable Design (USGBC [LEED®](#)) Submittals:
 - 1. LEED Credit IEQ, Indoor Environmental Quality. Complete online LEED forms and submit other required materials as follows:
 - a. LEED 2009 IEQ 4.1, Low Emitting Materials, **Adhesives & Sealants**: Submit VOC Data
 - b. LEED 2009 IEQ 4.3, Low Emitting Materials, Carpet and Resilient Flooring Systems: Submit CRI Green Label Certificate

NOTE: LEED v4 (below) may be used projects after November 20, 2013 or LEED 2009 (above) may be used on projects until October 31, 2016.

- c. LEED v4 (BD&C [**ID&C**]) EQ Credit: (1-3 points): Low-Emitting Materials.
- D. Closeout Submittals: Operation and Maintenance Data, Executed Warranty Documentation, and Record Documents.

NOTE: Edit LEED Requirements below to suit project.

- 1. Sustainable Design Closeout Documentation: Complete and maintain online USGBC

LEED® worksheets for the following credits:

- a. LEED 2009 EQ 4.1, EQ 4.3
- b. LEED v4 (BD&C [**ID&C**]) EQ

1.4 QUALITY ASSURANCE

- A. Qualifications: Installer / Applicator with a minimum three (3) years successful experience; and a Testing Agency in accordance with ISO/IEC Standard 17025 or ASTM E699 and ASTM E329.

NOTE: Installer / Applicator qualification requirement recommended for proper substrate preparation for the finish flooring material to be adhered.

- B. Source Limitations: Obtain spray-applied adhesive through one source from a single manufacturer or a Spray-Lock® approved distributor.

NOTE: To find an approved distributor, go to: <http://spraylock.com/distributors>

- C. Sustainability Standards and Certifications:

NOTE: Edit sustainability standards and certifications below to suit project.

1. Adhesive and Sealant VOC Limits: According to Green Seal [GS-36](#) for aerosols.
2. VOC Limits: As tested using U.S. EPA Reference Test Method 8260B.
3. General Emissions Evaluation: Use California Department of Public Health (CDPH) Standard Method v1.1–2010, using the applicable exposure scenario (mg/m³).

NOTE: Benchmark mockup requirement recommended to test substrate preparation, workmanship, and compatibility between finish flooring material and adhesive.

- D. Benchmark Installations: Provide on site mockup installations to verify final selections made under sample submittals and prototypes, to demonstrate aesthetic effects and set quality standard benchmarks for materials and execution.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Delivery, Storage and Handling in accordance with manufacturer's written recommendations, industry guidelines, and DIVISION 01 requirements.

1.6 FIELD CONDITIONS

- A. Conditions and Measurements:

1. Visit jobsite to verify installation conditions and floor measurements.
2. Ambient Conditions in accordance with manufacturer's written recommendations, DIVISION 01, and as follows:
 - a. New concrete slabs to be flat, clean and dry meeting all moisture tests passing manufacturer's written requirements.
 - b. Environmental Limitations: Maintain temperature and RH in accordance with manufacturer's recommendations.
 - c. Conditioning: Acclimate floor finish materials a minimum 48 hours in advance of installation.

1.7 WARRANTY

- A. Provide Spray-Lock® Flooring Adhesive Manufacturer's:

1. Material and Workmanship Warranty:
 - a. Aerosol (22oz) Flooring Adhesive to be free from defects for a period of three (3) years from date of manufacture.
2. Delamination Warranty that there shall be no delamination failure:

- a. Due to adhesive failure for a period of five (5) years from date of installation.
- b. As long as moisture vapor emissions do not exceed 90% RH (*for Spray-Lock® Standard Adhesives*) or 95% RH (*for Spray-Lock® Platinum Adhesives*), when tested in accordance with ASTM F2170
- c. For moisture in concrete slab conditions up to 8 lbs. (*for Spray-Lock® Standard Adhesives*) or 10 lbs. (*for Spray-Lock® Platinum Adhesives*) per 1,000 sf per 24 hours, when tested with a prepackaged calcium chloride crystal kit performed in accordance with ASTM F1869.
- d. For concrete slab conditions up to a pH of 11 (*for Spray-Lock® Standard Adhesives*) or 12 (*for Spray-Lock® Platinum Adhesives*) when tested in accordance with ASTM F710.

PART 2 - PRODUCTS

2.1 MANUFACTURERS / FABRICATORS

- A. Manufacturers List: Subject to compliance with requirements, provide spray adhesive products by one of the following:
 1. Spray-Lock, Inc., 5959 Shallowford Road, Suite 405, Chattanooga, TN 37421; 423.305.6151; 423.305.6150 (fax); www.spraylock.com
 2. Substitution Limitations: Manufacturers of equivalent products beyond those listed above shall be considered when submitted in accordance with DIVISION 01, using CSI Substitution Request Form 1.5C (During the Bidding Phase) or Form 13.1 (After the Bidding Phase.)
- B. Product Options: For information on Spray-Lock® products visit: <http://spraylock.com/adhesives>

2.2 DESCRIPTION

- A. Spray-Lock® Spray Adhesive is an aerosol water-based aerosol adhesive that: Acts similar to pressure sensitive adhesives; contains less than 0.02 g/mL VOC; is non-flammable; and is a non-HAP that emits no dangerous fumes or odors.
- B. Sustainability Characteristics
 1. [USGBC](#) LEED Rating: Comply with project requirements intended to achieve the following Rating, as measured and documented according to the USGBC LEED® Green Building Rating and Version indicated:

NOTE: Each LEED Version requires a different credit total to achieve the desired LEED Rating.

NOTE. Select one of the following Ratings and edit the Version listed to suit your project:

- a. Rating: Certified, Silver, Gold, or Platinum
- b. Version: LEED 2009-NC v. 3 (New Construction)
- c. Version: LEED v4 - BD&C (*Building Design and Construction*)
2. Applicable LEED Credits: Performance requirements of the following LEED Categories and Credits apply to this Section are met as follows:
 - a. Indoor Environmental Quality (EQ):
 - 1). LEED 2009 IEQ Credit 4.1, Low-Emitting Materials: **Adhesives** and Sealants: as applied to Spray-Lock adhesives.
 - a). Green Seal GS-36 requires a VOC limit of 70 g/L for Aerosol Adhesives, 65 g/L for Mist Spray Adhesives and 55 g/L for Web Spray Adhesives.
 - b). Spray-Lock® Flooring Adhesive tested VOC is **0.02 g/mL** using EPA Method 8260B.
 - 2). LEED 2009 IEQ 4.3: Low Emitting Materials, Carpet and Resilient Flooring Systems, CRI Green Label
 - a). Spray-Lock® Adhesives comply with the CRI Green Label Plus; See certificate

[#GLP 60255](#)

NOTE. Select either a. LEED 2009 or b. LEED v4, deleting the one not used.

- 3). LEED v4 (BD&C) EQ Credit (1-3 points): Low-Emitting Materials at least 90%, by volume, for emissions, and 100% for VOC content.
 - a). General Emissions Evaluation in accordance with CDPH v1.1-2010.
 - b). Spray-Lock® Flooring Adhesive tested VOC is **0.02** g/mL in accordance with EPA Method 8260B.
- C. Accessories: Spray-Applied Adhesive with aerosol container holder/dispenser accessory as recommended by the adhesive manufacturer.

PART 3 - EXECUTION

3.1 EXAMINATION, PREPARATION, AND INSTALLATION

- A. Examination, preparation, and installation in accordance with floor finish assembly product manufacturer's and adhesive manufacturer's written instructions, industry guidelines, DIVISION 01, and as follows:
 1. Acceptance of Conditions: Carefully examine installation areas with Installer/Applicator present, for compliance with requirements affecting Work performance.
 - a. Verify that field measurements, surfaces, substrates, structural support, tolerances, levelness, plumbness, temperature, humidity, moisture content level, cleanliness and other conditions are as required by the manufacturer, and ready to receive Work.
 - b. Test substrates as required by manufacturer to verify proper conditions.
 - c. Proceed with installation only after unsatisfactory conditions have been corrected.
 2. Provide and prepare substrates to ensure proper adhesion of flooring system in accordance with spray-adhesive manufacturer's instructions.
 - a. Sweep or vacuum, and damp mop clean flooring substrates immediately prior to spray-applied adhesive installation.
 3. Spray-Applied Adhesive Method:
 - a. Mark floor equivalent to manufacturer's recommended area for size of container used. Apply no more or less adhesive than what manufacturer recommends.
 - b. Outline perimeter of the room with a band of adhesive.
 - c. Lay flooring finish material, adjust and reset until layout placement is certain.
 - d. Roll entire floor area with a 75 to 100 lb (34 to 45 kg) roller to ensure proper bonding with instant shear strength.
 4. Close space to traffic for 2 hours before beginning installation. Flooring to be immediately available after rolling for all range of use.

3.2 FIELD QUALITY CONTROL

- A. Site Tests and Inspections in accordance with DIVISION 01, and as follows:
 1. Inspect floor finish system installation for non-conforming work including, but not limited to, lack of adequate adhesion, adhesive overspray, and improper substrate preparation.

3.3 CLEANING

- A. Waste Management in accordance with DIVISION 01, and as follows: Store and recycle cartons and aluminum adhesive containers.

3.4 CLOSEOUT ACTIVITIES

- A. Perform Closeout Procedures in accordance with DIVISION 01, and as follows:

1. Substantial Completion Requirements.
 2. Perform required Demonstration and Training with Owner's designated staff.
 3. Sustainable Design Closeout Documentation: Online LEED credit worksheets.
- B. Correct Non-Conforming Work in accordance with General Conditions, and the acceptance of the Architect.

END OF SECTION

NOTE: Be sure to obtain the latest version of this Guide Specification.

This Guide Specification is not a completed document ready for use. It must be edited, deleting, adding, or modifying text, as required to suit project requirements.

The professional stamping and the contracting parties of the Contract Documents are responsible for the accuracy of issued project specifications, including any use of this SPRAY-LOCK® Guide Specification.

SPRAY-LOCK, INC. SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.