

SECTION 090050

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 0.0 g/ml per EPA test method 24 VOC Adhesive
 - 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, Specification Sections, apply to this Section.

1.2 ADMINISTRATIVE REQUIREMENTS

- A. Coordination per DIVISION 01, and as follows:
 - 1. Coordinate concrete slab or concrete topping finish per DIVISION 03, and as required by DIVISION 09 finish flooring material manufacturer.
 - 2. Coordinate wood-based panel underlayment per 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. Submit completed LEED 2009-NC v.3 Submittal Templates and required paperwork as follows:
 - a. IEQ 4.1, Low Emitting Materials, **Adhesives** & Sealants: Submit VOC Data
 - b. IEQ 4.3, Low Emitting Materials, Carpet and Resilient Flooring Systems: Submit CRI Green Label Certificate
- 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: Submit completed USGBC LEED® Submittal [Worksheet Templates](#) for the following credits:

- a. IEQ 4.1, IEQ 4.3

1.4 QUALITY ASSURANCE

- A. Qualifications: Installer / Applicator with a minimum three (3) years successful experience; and a Testing Agency per 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.

- C. Sustainability Standards and Certifications:

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

- 1. Adhesive and Sealant VOC Limits: According to South Coast Air Quality Management District [Rule 1168](#) and [GS-36](#) for aerosols.
- 2. VOC Limits: As tested using U.S. EPA Reference Test Method 24 and as defined by
 - a. South Coast Air Quality Management District Rules: In areas where exposure to freeze/thaw conditions and direct exposure to moisture will not occur.
 - 1). SCAQMD Rule 1168, Adhesive and Sealant Applications
 - b. Bay Area Air Quality Management District Regulation: For containers larger than 16 oz., for areas where freeze/thaw conditions do exist or direct exposure to moisture can occur.
 - 1). BAAQMD [Regulation 8, Rule 51](#)
 - c. California Air Resources Board: For areas where freeze/thaw conditions do exist or direct exposure to moisture can occur.
 - 1). CARB for containers 16 oz. or less.

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 per manufacturer's written recommendations, industry guidelines, and DIVISION 01 requirements.

1.6 WARRANTY

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

- 1. Material and Workmanship Warranty:
 - a. Aerosol (22oz, 16oz) Flooring Adhesive shall be free from defects for a period of two (2) 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 85 percent RH when tested in accordance with ASTM F2170
 - c. For moisture in concrete slab conditions up to 7 lb 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 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 by Interlock Industries, Inc., 5959 Shallowford Road, Suite 309, Chattanooga, TN 37421; 423.615.6151; 423.615.6150 (fax); www.spraylock.com
 2. Substitution Limitations: Manufacturers of equivalent products beyond those listed above shall be considered when submitted per DIVISION 01, using CSI Substitution Request Form 1.5C (During the Bidding Phase) or Form 13.1 (After the Bidding Phase.) [link](#)
- B. Product Options:
 1. Spray-Lock™ 6500 for adhering vinyl backed carpet tile, and luxury vinyl tiles (LVT) or planks
 2. Spray-Lock™ 9500 for adhering vinyl composition tile (VCT)
 3. Spray-Lock™ 3500 for adhering resilient sheet vinyl flooring; and formulated for use in Medical / Health Care applications
 4. Spray-Lock™ 4500 for adhering approved homogenous and felt back sheet flooring
 5. Spray-Lock™ 4550 for adhering approved rubber flooring

2.2 DESCRIPTION

- A. Spray-Lock Spray Adhesive is an aerosol water-based adhesive that is pressure sensitive, VOC-Free, non-flammable, and is a non-HAP, emitting 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)
2. Applicable LEED Credits: Performance requirements of the following LEED Categories and Credits apply to this Section are met as follows:
 - c. Indoor Environmental Quality (EQ):
 - 1). EQ Credit 4.1, Low-Emitting Materials: **Adhesives** and Sealants: as applied to Spray-Lock adhesives.
 - a). SCAQMD Rule 1168 sets a limit of 50 grams / liter (g/L) for HVT adhesives.
 - b). BBAQMD Regulation 8, Rule 51, requires VOC limit of 150 g/L for Indoor Floor Covering Installation.
 - c). Spray-Lock™ 6500, and 9500 Adhesive VOC: **0.0** g/L per [SCS-FS-01551](#)
 - 2). EQ 4.3: Low Emitting Materials, Carpet and Resilient Flooring Systems, CRI Green Label
 - a). Spray-Lock™ Adhesives comply with the CRI Green Label Plus per certificate [#GLP 60255](#)

- C. Accessories: Spray-Applied Adhesive with aerosol lever applicator accessory as recommended by the adhesive manufacturer.

PART 3 - EXECUTION

3.1 FIELD CONDITIONS

A. Conditions and Measurements:

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

3.2 EXAMINATION, PREPARATION, AND INSTALLATION

A. Examination, preparation, and installation per 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, plu
 - b.
 - c. mbness, temperature, humidity, moisture content level, cleanliness and other conditions are as required by the manufacturer, and ready to receive Work.
 - d. Test substrates as required by manufacturer to verify proper conditions.
 - e. Proceed with installation only after unsatisfactory conditions have been corrected.
2. Provide and prepare substrates to ensure proper adhesion of flooring system per 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 is immediately available after rolling for all range of use.

3.3 FIELD QUALITY CONTROL

A. Site Tests and Inspections per 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.

3.4 CLEANING

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

3.5 CLOSEOUT ACTIVITIES

- A. Perform Closeout Procedures per 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: LEED credit worksheet paperwork.
- B. Correct Non-Conforming Work per General Conditions, and the acceptance of the Architect.

END OF SECTION

RED 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 AND INTERLOCK INDUSTRIES SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.