

SECTION 09 00 52

SPRAY APPLIED WALL TILE 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 applied wall tile adhesive, and includes but is not limited to the following:
 - 1. Spray-Lock® WTA
 - 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 02 through 49 Specification Sections, apply to this Section.

1.2 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, Test and Evaluation Reports.
- C. Sustainable Design (USGBC [LEED®](#)) Submittals:
 - 1. LEED Credit EQ, Indoor Environmental Quality. Complete online LEED forms and submit other required materials as follows:
 - a. **LEED 2009** IEQ 4.1 (1 point): Low Emitting Materials, **Adhesives** & Sealants, VOC Data

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.

- b. **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 IEQ 4.1
 - b. LEED v4 (BD&C [**ID&C**]) EQ Credit
- 1.3 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 wall tile material to be adhered.

- B. Source Limitations: Obtain spray-applied adhesive through one source from a single manufacturer or 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 wall tile 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.

1.4 DELIVERY, STORAGE, AND HANDLING

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

1.5 FIELD CONDITIONS

- A. Conditions and Measurements:
Visit jobsite to verify installation conditions and wall measurements.
1. Ambient Conditions in accordance with manufacturer's written recommendations, DIVISION 01, and as follows:
 - a. Environmental Limitations: Maintain temperature and RH in accordance with manufacturer's recommendations.
 - b. Conditioning: Do not install adhesive and wall tiles until all products are same temperature as space where they are to be installed.

1.6 WARRANTY

- A. Provide Spray-Lock® WTA Manufacturer's Material and Workmanship Warranty:
1. Aerosol (22oz) Wall Tile Adhesive to be free from defects in material and workmanship for a period of three (3) years from date of manufacture when handled, stored and transported in accordance with adhesive manufacturer's requirements.

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® WTA by 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/Negotiating Stage) or Form 13.1 (After the Bidding/Negotiating Stage).

- B. Product Options: For information on Spray-Lock® products visit: <http://spraylock.com/adhesives>
 - 1. Spray-Lock® WTA for adhering wall tiles
 - a. For adhering stone, granite, marble, porcelain, ceramic tile, and glass tile to walls
 - 2. Spray-Lock® FRP for adhering FRP wall panels
 - a. For adhering to plywood, drywall, water-resistant drywall, concrete backer board, and metal

NOTE: Tiles must be structurally sound with a non-grooved backing.

2.2 DESCRIPTION

- A. Spray-Lock WTA 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. 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 and 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® WTA Adhesive tested VOC is **0.02 g/ml** using EPA Method 8260B.

NOTE: Select either 1). LEED 2009 or 2). LEED v4, deleting the one not used.

- 2). LEED v4 EQ Credit (1-3 points): Low-Emitting Materials; at least 90%, by volume, for emissions; 100% for VOC content
 - a). General Emissions Evaluation in accordance with CDPH Standard Method v1.1–2010.
 - b). Spray-Lock® WTA 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 wall tile 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. Proceed with installation only after unsatisfactory conditions have been corrected.
2. Provide and prepare finished substrates to ensure proper adhesion in accordance with spray-adhesive manufacturer's instructions.
- a. Damp-wipe substrate to ensure substrate, wall tile product and surrounding areas are clean and dust free.
 - b. Substrates shall be dry, clean, structurally sound, well nailed, screwed and/or glued, free of voids and with joints that do not exceed 1/16 inch (1.6 mm)
 - c. Tape and finish Gypsum Wallboard joints, priming exposed joint compound with latex based primer.
3. Spray-Applied Adhesive Method:
- a. Layout and mark wall substrates equivalent to manufacturer's recommended area for size of aerosol can container used. Apply no more or less adhesive than what manufacturer recommends.
 - 1). Hold aerosol can upright, approximately 18 to 24 inches (45 to 60 cm) horizontally from the substrate, aim and pull trigger.
 - 2). Spray adhesive by moving aerosol can back and forth spraying smoothly and evenly.
 - 3). Remove adhesive build up on the aerosol can nozzle.
 - 4). Remove overspray with a damp cloth while adhesive is still wet.
 - b. Do not place wall tile product until adhesive is typically dry to the touch when there is no adhesive transfer when lightly touched.
 - 1). Open Time After Application: 1 hour
 - c. Place wall tile, adjust and reset until layout placement is certain.
 - d. Apply firm pressure to wall tile to ensure proper bonding with instant shear strength. Wall tile may be grouted within one hour after applying the tile.

3.2 FIELD QUALITY CONTROL

- A. Site Tests and Inspections in accordance with DIVISION 01, and as follows:
 1. Inspect wall tile 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 to 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, INC. SHALL NOT BE LIABLE FOR DAMAGES ARISING OUT OF THE USE OF THIS GUIDE SPECIFICATION.