

SECTION 090052

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™ 5500 Zero 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 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 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, VOC Data
- 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 credit IEQ 4.1.

1.3 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 wall tile 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 wall tile material and adhesive.

- D. Benchmark Installations: Provide 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 per manufacturer's written recommendations, industry guidelines, and DIVISION 01 requirements.

1.5 WARRANTY

- A. Provide Spray-Lock™ Wall Panel Adhesive Manufacturer's Material and Workmanship Warranty:
 - 1. Aerosol (22oz, 18oz) Wall Adhesive shall be free from defects in material and workmanship for a period of two (2) years from date of manufacture when handled, stored and transported per adhesive manufacturer's requirements.

PART 2 - PRODUCTS

2.1 MANUFACTURERS / FABRICATORS

- A. Manufacturers List: Subject to compliance with requirements, provide products by one of the following:
 - 1. Spray-Lock™ 5500 by Interlock Industries, Inc., 5959 Shallowford Road, Suite 309, Chattanooga, TN 37421; 706.517.8989; 706.517.8990 (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™ 5500 for adhering wall tiles and natural stones of consistent thickness.

2. Wall Tile Type: 6 x 6 tile size or smaller
 - a. Ceramic Tile
 - b. Porcelain Tile
 - c. Glass Mosaic Tile
 - d. Plastic Tile
 - e. Metal Tile
 - f. Stone Tile

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

2.2 DESCRIPTION

- A. Spray-Lock 5500 is an aerosol water-based acrylic blend adhesive that is pressure sensitive, chemically cross-linking, VOC-Free, non-flammable per NFPA 704, 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 and are met as follows:
 - a. Materials & Resources (MR):
 - b. Indoor Environmental Quality (IEQ):
 - 1). IEQ Credit 4.1, Low-Emitting Materials: **Adhesives** and Sealants: as applied to Spray-Lock adhesives.
 - a). SCAQMD Rule 1168 sets a limit of 65 grams / liter (g/L) for Ceramic Tile adhesives.
 - b). BBAQMD Regulation 8, Rule 51, requires a VOC limit of 150 g/L for installation on Porous Substrate Materials, and requires no use of an aerosol adhesive spray product unless the VOC content, including the propellant, does not exceed 75 percent by weight.
 - c). Spray-Lock™ 5500 Adhesive VOC: **0.0** g/L

NOTE: Spray-Lock™ 5500 is currently undergoing emission testing by third-party certifier, SCS.

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. Environmental Limitations: Maintain temperature and RH per manufacturer's recommendations.
 - b. Conditioning: Do not install adhesive and wall panels until all products are same temperature as space where they are to be installed.

3.2 EXAMINATION, PREPARATION, AND INSTALLATION

- A. Examination, preparation, and installation per wall panel 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 per spray-adhesive manufacturer's instructions.
 - a. Damp-wipe substrate to ensure substrate, wall panel 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 (1.6mm)
 - 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 18-24 inches (45.7cm - 61cm) horizontally from the substrate, aim and pull trigger.
 - 2). Move 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 panel 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.

3.3 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.