

SECTION 09 96 00

HIGH PERFORMANCE COATINGS

09 96 53 ELASTOMERIC COATING

This guide specification has been prepared by Vertetek Paint & Coatings, in printed and electronic media, as an aid to specifiers in preparing written construction documents for High performance coatings. Coat of Silence is a scientifically proven 2-step sound reduction solution for use on interior walls, ceilings, drywall and plaster. The Base Coat forms a high film build mass membrane that creates a sound absorbing barrier while the finish coat is formulated to deflect sound transmission with a 52 STC rating used together completes the patent pending sound reduction system. The Finish Coat can be covered by any latex paint.

This section may include performance, proprietary and descriptive type specifications. Edit to avoid conflicting requirements. Editor notes to guide the specifier are included between lines of asterisks to assist in choices to be made. Remove these notes before final printing of specification.

This guide specification is based on the Construction Specifications Institute (CSI) Section Format standards.

For specification assistance on specific product applications, please contact our offices above or any of our local product representatives throughout the country.

Vertetek Paint & Coatings reserves the right to modify these guide specifications at any time. Updates for this guide specification will be posted on the manufacturer's web site and/or in printed matter as they occur. Manufacturer makes no expressed or implied warranties regarding content, errors, or omissions in the information presented.

PART 1 GENERAL

1.01 SECTION INCLUDES

- A. Surface preparation.
- B. Application of 2 part high performance coating.

1.02 RELATED SECTIONS

Specifier Notes: Edit the list of related sections as required for the project. List other sections dealing with work directly related to this section.

- A. Section 09 83 13 – Acoustic Wall Coatings
- B. Section 09 90 00 – Painting & Coatings

1.03 REFERENCES

- A. RIVERBANK-ASTM E 90-04 1.1: This test method covers the laboratory measurement of airborne sound transmission loss of building partitions such as walls of all kinds, operable partitions, floor-ceiling assemblies, doors, windows, roofs, panels, and other space-dividing elements.1.2 Laboratory Accreditation; A procedure for accrediting a laboratory for performing this test method is given in Annex A3.1.3 This standard does not purport to address all of the safety concerns, if any, associated with its use. It is the responsibility of the user of this standard to establish appropriate safety and health practices and determine the applicability of regulatory limitations prior to use. This standard is referenced in the 2012 International Building Code® and the International Residential Code®.
- B. ASTM D2939 Section 15, Resistance to Water: Withdrawn Rationale: These test methods cover procedures for sampling and testing emulsified bitumen's used in relatively thick films as protective coatings for metals

- C. ASTM D522 Low Temperature Flexibility. 90/180 degree bends at -26 degrees Celsius: These test methods cover the determination of the resistance to cracking (flexibility) of attached organic coatings on substrates.
- D. ASTM C836 Section 6.12 Adhesion: This specification describes the required properties and test methods for a cold liquid-applied elastomeric-type membrane.
- E. ASTM E154 Resistance to Decay.
- F. ASTM E96 Water Vapor Permeance: These test methods cover the determination of water vapor transmission (WVT) of materials through which the passage of water vapor may be of importance, such as paper, plastic films, other sheet materials, fiberboards, gypsum and plaster products, wood products, and plastics. The test methods are limited to specimens not over 1 ¼ in. (32 mm) in thickness. Two basic methods, the Desiccant Method and the Water Method, are provided for the measurement of permeance, and two variations include service conditions with one side wetted and service conditions with low humidity on one side and high humidity on the other. Agreement should not be expected between results obtained by different methods. That method should be selected which more nearly approaches the conditions of use.
- G. ASTM D2240 Shore A durometer Hardness: This test method covers twelve types of rubber hardness measurement devices known as durometers: Types A, B, C, D, DO, E, M, O, OO, OOO, OOO-S, and R. The procedure for determining indentation hardness of substances classified as thermoplastic elastomers, vulcanized (thermoset) rubber, elastomeric materials, cellular materials, gel-like materials, and some plastics is also described.
- H. ASTM 2574-94 Mold To incorporate a bicyclic oxazolidine biocide and chlorothalonil fungicide into two interior paints and evaluate for in-can preservation and dry film fungal resistance following ASTM D2574-94 and ASTM D3273
- I. ASTM D3273 and D3274 Mold: This test method describes a small environmental chamber and the conditions of operation to evaluate the relative resistance of paint films to surface mold fungi & mildew growth in a severe interior environment. Test results are achieved after four weeks.
- II.
- J. ASTM D2370 Tensile and Elongation, 500% Elongation: This test method covers the determination of the elongation, tensile strength, and stiffness (modulus of elasticity) of organic coatings when tested as free films.
- K. ASTM E84-11: This fire-test-response standard for the comparative surface burning behavior of building materials is applicable to exposed surfaces such as walls and ceilings. The test is conducted with the specimen in the ceiling position with the surface to be evaluated exposed face down to the ignition source.

UL Class A fire rated in accordance with the standard ANSI UL 723 test for the surface burning characteristics of building materials.

1.04 SUBMITTALS

- A. Product Data: Submit manufacturer's product data, installation instructions, use limitations and recommendations.
- B. Samples: Submit representative samples for approval:

1.05 QUALITY ASSURANCE

- A. Applicator Qualifications: A firm having at least 3 years of experience in applying these types of specified materials and specifically accepted in writing by the manufacturer.
- B. Materials: For each type of material required to complete the work of this section, provide primary materials which are the products of a single manufacturer.
- C. Pre-Application Conference: A pre-application conference shall be held to establish procedures and to review conditions, installation procedures and coordination with other related work. Meeting agenda shall include review of special details and flashing.
- D. Manufacturer's Representative: Arrange to have trained representative of the manufacturer on site periodically to review installation procedures.

1.06 DELIVERY, STORAGE, AND HANDLING

- A. Deliver materials to site in manufacturer's original, unopened containers and packaging, with labels clearly identifying product name and manufacturer.
- B. Store materials in a clean, dry area in accordance with manufacturer's instructions.
- C. Store materials at temperatures of 40°F to 100°F to facilitate handling.
- D. Protect materials during handling and application to prevent damage or contamination.

1.07 PROJECT CONDITIONS

- A. Proceed with installation only when substrate construction and preparation work is complete.
- B. Warn personnel against contact with eyes; wear appropriate protective clothing.
- C. Maintain work area in a neat and workmanlike condition. Remove empty cartons and rubbish from the site daily.

1.08 WARRANTY

- A. See manufacturer web site for warranty information

PART 2 PRODUCTS

2.01 MANUFACTURER

- A. Vertetek Paint & Coatings. 8940 W. 192nd Street, Suite H Mokena, IL 60448
Toll Free: 855-837-8383 Local: 708-995-5188 Fax: 708-995-5259

2.02 COATING MATERIALS

- A. Coat of Silence - 2-step sound reduction solution: Water based acrylic emulsion system using our patent pending base and finish coat coating creates sound absorbing and sound deflecting barriers. Finish Coat can be top coated by any latex paint. For use on interior walls, ceilings, drywall and plaster

PHYSICAL PROPERTIES

1. PHYSICAL FORM: Thick Liquid
2. COLOR: Gray (Base Coat) or White (Top Coat)
3. ODOR: Mild Acrylic

4. BOILING POINT: Not determined
5. MELT / FREEZING POINT Not determined
6. PH: 8.5 to 9.5
7. WATER SOLUBILITY: Not soluble but easily mixes (miscible) with water
8. SPECIFIC GRAVITY: 1.20 to 1.30 (water = 1)
9. % VOLATILE BY WEIGHT: 40 % max.
10. VAPOR PRESSURE: Not determined
11. VAPOR DENSITY: Not determined
12. VOLATILE ORGANIC COMPOUND CONTENT: At or less than 0.5 % by weight; less than 6 grams/liter (Propylene Glycol)
13. The Total Non-Volatiles or solids for the products, are as follows: Base Coat TNV = 64.77 (63.5 +/- 1.5 %) Top Coat TNV = 61.53 or (60 +/- 1.5 %) The TNV value as a range allows for variations in manufacturing and test equipment

PART 3 EXECUTION

3.01 EXAMINATION

- A. Examine surfaces to receive coatings. Notify General Contractor if surfaces are not acceptable. Do not begin surface preparation or application until unacceptable conditions have been corrected.

3.02 SURFACE PREPARATION

- A. Clean and prepare surfaces in accordance with manufacturer's instructions.
- B. Surfaces must be clean, smooth, and free of dirt, grease or wax.

3.03 APPLICATION

- A. Base Coat Application:
 1. For best sound reduction results, 32 wet mils of Base Coat is recommended.
 2. Stir Base Coat thoroughly for 2 to 5 minutes with drill or paddle.
 3. Because the Base Coat creates a membrane, make sure to apply an ample coat of product without running.
 4. An airless sprayer with a 517 tip and 2200 to 2,400 psi is recommended. Be sure to clean the sprayer using soap and water within 30 minutes (after last use) or the material will begin to set inside the sprayer. Please note: the dampening ability of the material is not affected by application method.
 5. Simply spray on the base coat, let dry to the touch (approximately 30 minutes based on temperature, humidity, and thickness of application), then apply finish coat.
- B. Finish Coat Application:
 1. The finish coat is applied over the base coat 16 mils wet recommended
 2. . It can be painted over with any type of latex paint.
 2. Stir Finish Coat thoroughly for 2 to 5 minutes with drill or paddle.
 3. Spray on and make sure to apply an even coat to ensure a consistent finished surface.

4. An airless sprayer with a 517 tip and 2200 to 2,400 psi is recommended. Be sure to clean the sprayer using soap and water within 30 minutes (after last use) or the material will begin to set inside the sprayer. Please note: the dampening ability of the material is not affected by application method.

C. Cleaning:

1. Clean up can be done with soap and warm water.

END OF SECTION