



ICC Evaluation Service, Inc.
www.icc-es.org

Business/Regional Office ■ 5360 Workman Mill Road, Whittier, California 90601 ■ (562) 699-0543
Regional Office ■ 900 Montclair Road, Suite A, Birmingham, Alabama 35213 ■ (205) 599-9800
Regional Office ■ 4051 West Flossmoor Road, Country Club Hills, Illinois 60478 ■ (708) 799-2305

The Subcommittee on Evaluation has reviewed the data submitted for compliance with the *Standard Building Code*® and submits to the Building Official or other authority having jurisdiction the following report. The Subcommittee on Evaluation, ICC-ES and its staff are not responsible for any errors or omissions to any documents, calculations, drawings, specifications, tests or summaries prepared and submitted by the design professional or preparer of record that are listed in the Substantiating Data Section of this report.

REPORT NO.: 2151

EXPIRES: See the current EVALUATION REPORT INDEX

CATEGORY: EXTERIOR FINISHES

SUBMITTED BY:

JEMCOAT INDUSTRIES, INC.
P.O. BOX 753
DeFUNIAK SPRING, FLORIDA 32435

1. PRODUCT TRADE NAME

Jemcoat Acrylic Finish

2. SCOPE OF EVALUATION

- 2.1 Structural - Transverse Wind Load
- 2.2 Weathering
- 2.3 Surface Burning Characteristics
- 2.4 Water Penetration

3. USES

Jemcoat Acrylic Finishes are used as an exterior wall finish on buildings of Type VI construction.

4. DESCRIPTION

4.1 General

Jemcoat Acrylic Finishes are field installed on the exterior of a code approved sheathing and weather resistive barrier. The finish system is applied to the approved substrate and is made up of 3/4" casing bead, window and door flashing, corrugated stucco wrap, 3.4 self-furring paper back diamond lath, 1/4" inch modified stucco and Portland cement scratch coat, 1/2" modified stucco and Portland cement brown coat, Jemcoat Acrylic Primer, and Jemcoat Acrylic Finish.

4.2 Materials

4.2.1 Weather Resistive Barrier: an approved moisture protection barrier, Type 15 felt or Kraft waterproof building paper, Section 2303.3 *Standard Building Code*®.

4.2.2 3/4" casing bead is a rigid PVC track with weepholes and drip edge around the perimeter of the applied surface and wall openings.

4.2.3 Window and door flashing is a flexible 6 inch wide tape strip applied at all casing edges and wall openings, such as doors and windows.

4.2.4 Corrugated stucco wrap is a weather-resistant barrier under the name of Tyvek® Stuccowrap™, and has been evaluated SBCCI PST & ESI in Report No. 95105D.

4.2.5 Metal Lath: a 3.4 (lbs/yd²) self-furring paperback diamond lath complying with the ICC-ES Acceptance Criteria for Metal Plaster Bases (Lath) (AC191).

4.2.6 Scratch Coat: stucco and Portland cement with a fiberglass polymer modified based binder and Jemcoat Add Mixture.

4.2.7 Basecoat: a fiber reinforced stucco with Jemcoat Add Mixture.

4.2.8 Jemcoat Add Mixture: an acrylic added to the stucco while mixing.

4.2.9 Jemcoat Acrylic Primer: the primer is a roll on material that is the last coat added to the wall before the finish is applied. It seals the wall as well as provides the first layer of color.

4.2.10 Jemcoat Acrylic Finish: the finish material comes in four textures and are a mixture of marble and/or sand aggregates with a acrylic based polymer. The color is added to this mixture to give the final wall finish. The four finishes are:

- **Diamond Worm:** A pattern created by rolling the largest aggregate when using a plastic trowel for floating.
- **Emerald Coarse:** Combines aggregates of various sizes that, when floated out with a plastic trowel, will produce a uniform pebble-like texture.
- **Sapphire Medium:** Uses a slightly larger aggregate than Gold Dust Fine to ensure the uniform texture.
- **Gold Dust Fine:** Utilizes a very fine marble aggregate to create a light, sand-like, uniform texture throughout.

ICC-ES legacy reports are not to be construed as representing aesthetics or any other attributes not specifically addressed, nor are they to be construed as an endorsement of the subject of the report or a recommendation for its use. There is no warranty by ICC Evaluation Service, Inc., express or implied, as to any finding or other matter in this report, or as to any product covered by the report.

4.2.11 Sand: to comply with ASTM C144.

4.2.12 Cement: Portland Type I & II to comply with ASTM C150.

4.3 Surface Burning Characteristics

The Jemcoat Exterior Wall System was tested for use under ASTM E 84 and demonstrated a flame spread index (FSI) of 25 or less and smoke developed index (SDI) of 450 or less.

4.4 Weathering

The Jemcoat Exterior Wall System was tested for use under ASTM G 23 and demonstrated no signs of surface changes such as cracking, checking, crazing, erosion or other characteristics that might affect performance as a wall cladding.

5. INSTALLATION

5.1 General

The Jemcoat Exterior Wall System is installed in accordance with the manufacturer's published installation instructions and this report. The system shall be installed by contractors trained and listed by Jemcoat Industries, Inc. The substrates shall be structurally sound, clean, dry, and smooth with all dust and deleterious materials removed.

The manufacturer's published installation instructions and this report shall be strictly adhered to and a copy of these instructions shall be available at all times on the job site during installation. The instructions within this report govern if there are any conflicts between the manufacturer's instructions and this report.

5.2 Application

The Jemcoat Exterior Wall System is applied over solid sheathing. The exterior surface of the sheathing is covered with a weather resistive barrier. Flashing Tape is applied to framing edges, breaks, and terminations as required. The $\frac{3}{4}$ inch casing bead is installed around each section of the wall as required along with any flashing at windows and door openings. A corrugated stucco wrap is installed over the weather barrier, with ends overlapping from top to bottom. The ridges of the stucco wrap are to run vertically and with the appropriate adhesive taping down all joints. Self-furring, 3.4 paperback diamond lath will be installed taut with the long dimension perpendicular to the supports. The ends and sides of the lath shall overlap a minimum of one and a half inches. The lath shall also be secured to the primary supports at six inches on center. The scratch coat is applied over the lath to a thickness of $\frac{1}{4}$ inch with the scratches running horizontally throughout the wall. The base coat is then applied to a thickness of $\frac{3}{8}$ to $\frac{1}{2}$ inch. After the base coat has cured, the Jemcoat Acrylic Primer is rolled on to help seal the base. Next the Jemcoat Acrylic Finish coat is applied using a stainless steel trowel and then texture the finish using a plastic trowel.

5.3 Wind Resistant Assemblies

**Jemcoat Exterior Wall System
Wood Stud Walls W/ Plywood Sheathing
Maximum Design Wind Load Pressure
See Table 1**

The Jemcoat Exterior Wall System is applied to minimum $\frac{15}{32}$ inch thick exterior grade plywood sheathing secured to 2" by 4"

studs (#2 SYP sp. gr. 0.54) spaced 16 inches (406 mm) on center. A PVC $\frac{3}{4}$ inch casing stop bead is used at all joints and attached using $1\frac{1}{4}$ inch wafer head screws 6 inches on center. Inside the casing, Tyvek Stucco wrap is laid with the top joint overlapping the bottom joints 6 inches and taped with Tyvek Tape. A 3.4 self-furring paperback lath is attached with $1\frac{1}{4}$ inch wafer head screws spaced 6 inches on center at each stud and 24 inches on center between studs. The Jemcoat acrylic and nylon scratch coat applied over the lath to a thickness of $\frac{1}{4}$ inch. The modified brown coat is applied over the scratch coat to a thickness of $\frac{1}{2}$ inch making the total thickness of $\frac{3}{4}$ inches. The Jemcoat Primer and Finish are rolled on after the brown coat has cured.

**TABLE 1
ALLOWABLE WIND DESIGN LOADS**

| Deflection | Positive Loads | Negative Loads |
|------------|----------------|----------------|
| L/360 | 100.0 psf | 35.8 psf |
| L/240 | 130.0 psf | 35.8 psf |
| L/175 | 153.5 psf | 35.8 psf |
| L/120 | 153.5 psf | 35.8 psf |

6. SUBSTANTIATING DATA

- 6.1 Manufacturer's descriptive literature, specifications, installation instructions, and details as follows:
- 6.2 Test reports on water penetration, under ASTM E-331, prepared by National Certified Testing Laboratories., Report No. NCTL-210-2612-1, dated October 31, 2001, signed by Barry D. Portnoy, P.E.
- 6.3 Test reports on transverse wind load, under ASTM E-72, prepared by National Certified Testing Laboratories., Report No. NCTL-210-2613-1, 2, 3, October 31, 2001, signed by Barry D. Portnoy, P.E.
- 6.4 Test reports on 2000 Hour Carbon Arc Accelerated Weathering according to ASTM G-23, prepared by RADCO, Inc., Report No. RAD-2911, October, 2001, signed by Yamil Moya and Michael L. Zieman, P.E.
- 6.5 Test report on Freeze-Thaw cycles, prepared by RADCO, Inc., Project No. RAD-2806, dated May, 2001, signed by Yamil Moya and Michael L. Zieman, P.E.
- 6.6 Test report on surface burning characteristics, prepared by Intertek Testing Services, Inc., Report No. J20031487-001, dated March 21, 2001, signed by Brian Connor, Shannan Nichols, and James Tanner.

7. CODE REFERENCES

Standard Building Code© - 1999 Edition

| | |
|----------------|---|
| Section 103.7 | Alternate Materials and Methods |
| Section 601.2 | Classification by Type of Construction |
| Section 1403 | Veneered Walls |
| Section 1601 | Structural Loads - General |
| Section 1606 | Wind Loads |
| Section 1610 | Deflections |
| Section 2303.3 | Moisture Protection |
| Section 2308.2 | Bracing of Exterior Stud Walls |
| Section 2504.2 | Application - Exterior Lathing and Plastering |

8. COMMITTEE FINDINGS

The Subcommittee on Evaluation in review of the data submitted finds that, in their opinion, the Jemcoat Exterior Wall System as described in this report conform with or is a suitable alternate to that specified in the *Standard Building Code*® or Supplements thereto.

9. LIMITATIONS

- 9.1 This Legacy Evaluation Report and the installation instructions, when required by the building official, shall be submitted at the time of permit application.
- 9.2 The Jemcoat Exterior Wall System shall be installed only by contractors trained and listed by Jemcoat Industries, Inc.
- 9.4 The finish system shall not be taken to add to the structural strength of any wall system.
- 9.5 The finish system shall not be used as exterior stud wall bracing. Wall bracing must be provided in accordance with Section 2308.2.
- 9.6 The finish system shall not be used for structural sheathing or as a nailing base.
- 9.7 The finish system has not been evaluated as a component of a fire rated assembly.
- 9.8 The design wind load pressures shall not exceed the capacities shown for the assemblies described in Section 5.3.
- 9.9 Structural calculations shall be submitted to the authority having jurisdiction documenting the wind resistance of the finish system and substrate for Wind Resistant Assemblies not listed in this report.

10. IDENTIFICATION

Each package of the Jemcoat Exterior Wall System covered by this report shall be labeled with the manufacturer's name and/or trademark, the SBCCI Public Safety Testing and Evaluation Services Inc. Seal or initials (SBCCI PST & ESI), and the number of this report for field identification.

11. PERIOD OF ISSUANCE

SEE THE CURRENT EVALUATION REPORT INDEX FOR STATUS OF THIS LEGACY EVALUATION REPORT.

For information on this report contact:
J. David Musselwhite, P.E.
205/599-9800