



MIRACLE® – FOAMSEAL F6400LVR
Guide Specification

SECTION 061118
STRUCTURAL ADHESIVE

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STRUCTURAL ADHESIVE

PART 1 - GENERAL

1.1 SUMMARY

- A. This Section includes structural adhesive.

1.2 SUBMITTALS

- A. Product Data: For each type of product indicated.
- B. Certificates:
 - 1. GREENGUARD Children & Schools.
 - 2. GREENGUARD Indoor Air Quality.
 - 3. SCAQMD (South Coast Air Quality Management District), Rule 1168.
 - 4. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.

1.3 REGULARY REQUIREMENTS

- A. SCAQMD (South Coast Air Quality Management District), Rule 1168 – Adhesive and Sealant Applications.
- B. Ozone Transport Commission (OTC) model Rule for Adhesives and Sealants.

PART 2 - PRODUCTS

2.1 MANUFACTURERS

- A. Structural Adhesive:
 - 1. Foamseal F6400LVR Structural Adhesive manufactured by Holcim Solutions and Products US, LLC
 - a. 111 s. Nursery Rd., Irving TX 75060.
 - b. 56 Air Station Industrial park Rockland MA, 02370
 - 2. Or equal.

2.2 STRUCTURAL ADHESIVE

- A. Description: Single-component, moisture-cured structural adhesive designed to bond flooring to joists, wallboard to stud framing, and to affix wallboard to header construction. Formulated to meet the structural requirements of the Manufactured Housing Industry.
- B. Features;
 - 1. Listed under ICC-ES ESL 1379 <https://icc-es.org/report-listing/esr-4927/>
 - 2. Approved for one-sided & two-sided shear wall construction.
 - 3. Solvent free, no added urea formaldehyde.
- C. Physical Properties:
 - 1. Base: Polyurethane.
 - 2. Weight/Gallon: 9.50 lbs/gallon.
 - 3. VOC Content: 0.24 g/L (EPA Method 24).
 - 4. Shelf Life: 12 months, unopened.
 - 5. Viscosity: 4200 cps @ 77°.
 - 6. Flashpoint: >400°F.
 - 7. Open Time: (75 F, 40% RH).
 - 8. Color: Red.
 - 9. Formaldehyde: No urea formaldehyde added during adhesive manufacturing
 - 10. Tested to: ASTM C557, ASTM D3498, ASTM D6464, ASTM E72, AFG-01, and CA25-4.
- D. Certification:
 - 1. GREENGUARD Children & Schools Certified.
 - 2. GREENGUARD Indoor Air Quality Certified.
- E. Contributes to LEED and other green building rating system credits:
 - 1. LEED-NC and LEED-CI EQ Credit 4.1.
 - 2. LEED for Schools EQ Credit.
 - 3. LEED Core & Shell EQ Credit 4.1.
 - 4. LEED-EB MR Credit 3.
 - 5. CHPS® (Collaborative for High Performance Schools) EQ Credit 2.2.
 - 6. Green Guide for Health Care EQ Credit 4.1.
 - 7. NAHB Model Green Home Bldg Guidelines – Sect 7, Global Impact 7.1.3.

PART 3 - EXECUTION

3.1 APPLICATION, GENERAL

- A. Comply with adhesive manufacturer's written instructions for installation.

3.2 ADHESIVE APPLICATION

- A. Adhesive is to be applied in temperature conditions between $\geq 50^{\circ}\text{F}$ and should remain in those conditions for a minimum of 24 hours.

- B. All substrate surfaces should also be between $\geq 50^{\circ}\text{F}$.
- C. Proper storage temperature of F6400LVR should be $\geq 50^{\circ}\text{F}$.
- D. All surfaces must be free from grease, oil, mold release agents, gypsum dust and all loose particles.
- E. Adhesive is applied using 1/16" to 1/8" wide continuous beads by using a squeeze bottle or pressurized dispensing equipment.
- F. The maximum open time for adhesive is 15 minutes.
- G. Construction of assemblies using adhesive and their design values should be as described in the test reports.

END OF SECTION 061118