

Sustainable Flooring's CSI Spec. for Showercork™ Flooring (09600)

Showercork™ Flooring

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:

- a. Use of low-VOC and E-0 Compliant adhesives and finishes in manufacturing of all products.
- b. Manufacturer uses only A-grade premium wine corks in the manufacturing
- c. Member: United States Green Building Council

2. Installer Qualifications:

- a. Minimum three years experience in tile flooring installation.
- b. Minimum three years experience in installation of tile flooring over radiant heating systems.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver Showercork sheets to project site not less than 3 days prior to start of installation.

1.05 PROJECT/SITE CONDITIONS

A. Environmental Requirements: Installation spaces, flooring and adhesive must be maintained at normal occupancy temperature and humidity levels for minimum 3 days prior to installation.

1.06 WARRANTY

A. Special Warranty:

Warranty: 1 year against any delamination or separation as a result of a manufacturing defect when installed and maintained in accordance with manufacturer's installation and maintenance instructions.

PART 2 – PRODUCTS

2.01 MANUFACTURER

- A. Sustainable Flooring
4390 Pali Way
Boulder, CO 80301
- Tel: (303)544-6076
e-mail: info@sustainableflooring.com
Web-site: <http://www.sustainableflooring.com>

B. Product name: Showercork™

C. Substitutions: None Permitted.

2.02 MATERIALS

A. Showercork™ Flooring:

1. Species: Quercus Suber (Cork Oak)
2. Size: 300mm x 600mm x 6mm (approx. 12"x 24" x 1/4");
Packaging: 70 square feet/carton
3. Construction: Cork discs glue-laminated to a paper-backing
4. Finish: Pre-coated with urethane (stained Showercork available upon request)
5. Physical Property Performance Requirements:
 1. Composition: 100% cork
 2. Density: $\geq 500\text{kg/m}^3$
 3. Thermal Insulation: $0.0958 \text{ Kcal/m}^3\text{h}^\circ\text{C}$
 4. Fire Behavior: Classification CSTB = M3
(neither spreads flame nor releases toxic gases during combustion)
 5. Smoke Density of Showercork material: Specific Optical Density (per ASTM E 662 and NFPA 258)- Flaming: 148, Non-flaming: 272
 6. Compression Recovery of Showercork material: (per ISO 9727; with loading of 38.5 lbs/sq^2)
Initial: 10%; Residual (after 1.5 hours): 1.5%
Breaking tension on traction: no less than 11lbs/ sq. in.
 7. Thermal Properties of Showercork material: (per ASTM C 518)
Thermal Conductivity (k) - 0.3490
Thermal Resistance (r) - 0.49
Thermal Resistance/inch - 2.87
 8. Water Vapor Transmission: $0.128 \text{ grains/h ft}^2$
 9. Permeance of Showercork material: 0.183 perms (per ASTM E 96)
 10. Formaldehyde: Class E0 Phenol (No Urea Formaldehyde inclusion acceptable).

B. Installation Adhesives:

1. Showercork™ to substrate: Water-based acrylic adhesive, or similar.
2. Grout to Showercork™:
 - a. Dry installations: Sanded Grout (specify color) by Mapei, or similar
 - b. Wet installations: Epoxy Grout (specify color) by Mapei, or similar

PART 3 - EXECUTION

3.01 EXAMINATION

- A. Examine substrates upon which flooring will be installed.

1. Verify that subfloor is clean, dry, and free of contaminants that would interfere with adhesive bond.

2. If installing on concrete: Test concrete floors for moisture content using a Calcium Chloride test or Tramex Moisture Encounter meter. Do not install flooring if vapor pressure exceeds 3 lbs per 1,000 sf (15 g per m²) in 24 hours.

a. In multiple story buildings, test each floor level where cork flooring will be installed.

b. Mark test location(s) on As-Built Drawings.

3. Verify that HVAC system is operating and maintaining occupancy level temperature and humidity conditions.

* If either of the above needs attendance, coordinate with responsible entity to correct unsatisfactory conditions.

3.02 PREPARATION

A. Acclimatization: Open all boxes, and let acclimate for a minimum of 3 days.

B. Fix the substrate so all bumps and depressions are completely leveled for the glue-down tile application, and ensure bumps and depressions are less than 1/8" over 8 feet

3.03 INSTALLATION

A. Evenly spread adhesive across substrate. The substrate should be clean and free of debris.

B. Carefully place each full sheet next to one another, cutting with a utility knife if needed.

C. If staining Showercork, do so now.

D. Apply 2 coats of polyurethane to Showercork sheets.

E. Evenly distribute grout (sanded or epoxy) with a rubber float, making certain all joints are completely filled. The finished grout should be uniformly smooth, without any voids or low spots.

F. After the grout is dry and has been cleaned, finish the installation by applying two additional coats of urethane over the entire flooring surface (consider additional if "wet" application).

3.04 MAINTENANCE

A. Cleaning: Sweep or vacuum floor frequently to avoid build-up of abrasive particles. Depending on application, either regularly mop the floor surface (dry installation) to keep the floor surface free of dirt and grit. Use a WELL wrung out damp mop (using either just water, or a mixed solution of vinegar and water – one cup of vinegar per gallon of water). If the cleaning solution you are using does not evaporate within minutes, you are using too much.

B. Furniture and heavy objects (if applicable): Furniture foot pads are recommended to prevent indentations in the tiles.

C. Wet installations: In wet installations, it is important to ensure that cork material is protected by urethane, and it is therefore recommended to occasionally recoat with urethane to ensure a finish buildup. This is a common practice for similar products like natural stone,

and will help ensure a beautiful, long lasting installation. Application of finish should be followed by finish manufacturer's installation instruction, and should be repeated as often as necessary. As with any natural product where finish is applied, failure to maintain the finish could result in irreparable damage.

3.05 PROTECTION

A. Cover installed flooring with heavy kraft-paper or other suitable covering. Do not use non-breathable sheet or film that could cause condensation to form. Maintain covering throughout remainder of construction period.

With any questions, or for this in a digital format, contact:

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