

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

VersaCork™ Flooring

PART 1 – GENERAL INFO

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 VersaCork™ 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: 10 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

1. Sustainable Flooring
4390 Pali Way
Boulder, CO 80301

Tel: (303)544-6076
e-mail: info@sustainableflooring.com
Web-site: <http://www.sustainableflooring.com>
2. Product name:
 1. Versacork Premium

- a. Prefinished
 - b. Unfinished
2. Versacork Mega
 - a. Unfinished
 - b. Prefinished (special order)

C. Substitutions: None Permitted.

2.02 MATERIALS

A. VersaCork™ Flooring:

1. Species: Quercus Suber (Cork Oak)
2. Size:
 - a. Versacork Premium - 300mm x 600mm x 6mm (approx. 12"x 24" x ¼")
 - b. Versacork MEGA - 600mm x 600mm x 6mm (approx. 24"x 24" x ¼")
3. Packaging
 - a. Versacork Premium – 130 sheets per carton (approx. 260 sq. ft. of material).
 - b. Versacork MEGA - 66 sheets per carton (approx. 266 sq. ft. of material)

Important NOTE: Sheets are interlocking, so actual 'installed' coverage is less than that size of sheet provided. The ordering/overage factor to compensate for the inherent product stagger is 12%. For example, if you need to cover 100 sq. ft. of floor area, in order to have enough material you would need to order no less than 112 sq. ft. to achieve the needed coverage.

4. Finish
 - a. Prefinished – 2 coats of Forbo finish pre-applied
 - b. Unfinished – no finish pre-applied
 - c. 'Stained' – product recommendations available upon request (factory applied pre-stained available with certain minimum quantities)
5. Construction/lamination:
 - a. Prefinished" products – cork discs are glued/laminated onto a paper-backing (the backing to be inset into the glue)
 - b. "Unfinished" products - cork discs are adhered to a plastic film, with the film on the face of the discs (the discs to be inset into glue, then once set, the plastic film is removed).
6. 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 VersaCork™ material: Specific Optical Density (per ASTM E 662 and NFPA 258)- Flaming: 148, Non-flaming: 272
 6. Compression Recovery of VersaCork™ 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 VersaCork™ 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 grains/h ft²

9. Permeance of VersaCork™ material: 0.183 perms (per ASTM E 96)

10. Formaldehyde: Class E0 Phenol (No Urea Formaldehyde inclusion acceptable).

11. Coefficient of Friction:

Premium	Wet .879	Dry 1.1
Mega	Wet .89	Dry 1.15

B. Installation Adhesives and Grouts:

1. VersaCork™ to substrate: 2 component urethane adhesive, i.e. Greenfusion2 from Bostik.
2. Grout to VersaCork™:
 - a. Dry installations: Starquartz / TruColor Grout by Bostik
 - b. Wet installations: Starquartz / TruColor Grout by Bostik

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 to 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 – see detailed installation instructions for more pertinent information.

A. Unfinished Versacork

1. Cut and dry lay sheets on substrate, cutting with a utility knife if needed.
2. Remove sheets and evenly spread adhesive across substrate. The substrate should be clean and free of debris.
3. Carefully place each full sheet next to one another.
4. Allow adhesive to fully cure. If staining Unfinished VersaCork™, do so now.
5. Apply 2 coats of polyurethane to VersaCork™ sheets to unfinished or stained Versacork.
6. Evenly distribute grout with a rubber float, making certain all joints are completely filled. The finished grout should be uniformly smooth, without any voids or low spots.

B. Prefinished Versacork

1. 1. Cut and dry lay sheets on substrate, cutting with a utility knife if needed.
2. Remove sheets and evenly spread adhesive across substrate. The substrate should be clean and free of debris.
3. Carefully place each full sheet next to one another.
4. Allow adhesive to fully cure.
5. Evenly distribute grout with a rubber float, making certain all joints are completely filled. The finished grout should be uniformly smooth, without any voids or low spots.

3.04 MAINTENANCE

- A. Cleaning: Sweep or vacuum floor frequently to avoid build-up of abrasive particles. Depending on application, regularly dry mop the floor surface to keep the floor surface free of dirt and grit. Use a WELL wrung out damp mop in conjunction with a high ph balance cleaner, such as Bona Hardwood Flooring Cleaner or Simple Green. 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 check floor regularly to make sure urethane is on cork. 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 to protect cork. As with any natural product where finish is applied, failure to maintain the finish could result in irreparable damage.

D. One maintenance step that can be taken to clean and build finish at same time is use of Bona Kemi Hardwood Floor Refresher. Cleaning with this product on a regular basis will help build up finish and allow for need to refinish floor less often. www.bona.com

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:

Sustainable Flooring
4390 Pali Way
Boulder, CO 80301
Ph: (303) 544-6076
Fax: (303) 447-0491
Email: info@sustainableflooring.com
Web: www.sustainableflooring.com