

Versacork® - CSI Specs.

1.03 QUALITY ASSURANCE

A. Qualifications:

1. Manufacturer Qualifications:

- a. Use of cork sourced from the *Quercus Suber* tree as found only in Southwest Europe and North Africa
- b. Use of low VOC, E1 Compliant, and CARB compliant adhesives in manufacturing of all products.
- c. Prior production of material for no less than 3 years.

1.04 DELIVERY, STORAGE, AND HANDLING

A. Deliver wall paneling to project site, or fabrication site, not less than 3 days prior to start of installation (to allow for suitable acclimation).

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/DISTRIBUTOR

Sustainable Materials LLC
5403 Western Ave #C
Boulder, CO 80301
USA

Tel: (720) 449-3063
e-mail: info@sustainablematerials.com
Website: <http://www.sustainablematerials.com/muratto>

A. Versacork®

1. Premium
2. MEGA

B. Size:

1. Versacork® Premium: 300mm x 600mm x 6mm (approx. 12"x 24" x ¼")
2. Versacork® MEGA: 600mm x 600mm x 6mm (approx. 24"x 24" x ¼")

C. Substitutions: None Permitted.

2.02 MATERIALS

A. VersaCork®:

1. Species: *Quercus Suber* (Cork Oak)

2. 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 glued/laminated onto a paper-backing (the backing to be inset into the glue)

c. 3. Packaging

- a. Versacork® Premium – 48 sheets per carton (approx. 96 sq. ft. of material).
- b. Versacork® MEGA - 24 sheets per carton (approx. 96 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, 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. Physical Property Performance Requirements:

- a. Composition: 100% cork
- b. Density: $\geq 500\text{kg/m}^3$
- c. Thermal Insulation: $0.0958\text{ Kcal/m}^3\text{h}^\circ\text{C}$
- d. Fire Behavior: Classification CSTB = M3
 - i. (neither spreads flame nor releases toxic gases during combustion)
- e. Smoke Density of VersaCork® material: Specific Optical Density (per ASTM E 662 and NFPA 258)- Flaming: 148, Non-flaming: 272
- f. Compression Recovery of VersaCork® material: (per ISO 9727; with loading of 38.5 lbs/sq²)
 - i. Initial: 10%; Residual (after 1.5 hours): 1.5%
 - ii. Breaking tension on traction: no less than 11lbs/ sq. in.
- g. Thermal Properties of VersaCork® material: (per ASTM C 518)
 - i. Thermal Conductivity (k) - 0.3490
 - ii. Thermal Resistance (r) - 0.49
 - iii. Thermal Resistance/inch - 2.87
- h. Water Vapor Transmission: 0.128 grains/h ft²
- i. Permeance: 0.183 perms (per ASTM E 96)
- j. Formaldehyde: Class E0 Phenol (No Urea Formaldehyde inclusion acceptable).
- k. 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 adhesives or Modified Thinset.
- 2. Grout to VersaCork®: TruColor Grout by Bostik

PART 3 - EXECUTION

3.01 EXAMINATION

A. Examine substrates upon which flooring will be installed.

- 1. Verify that subfloors are clean, dry, and free of contamination 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 the HVAC system operates and maintains 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 – see detailed installation instructions for more pertinent information.

A. Unfinished Versacork®

1. Cut and dry lay sheets on substrate, cutting them 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 be fully cured. 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 filled. The applied grout should be uniformly smooth, without any voids or low spots.

B. Prefinished Versacork®

1. Cut and dry lay sheets on substrate, cutting them 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 be fully cured.
5. Evenly distribute grout with a rubber float, making certain all joints are filled, and that they are 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 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 footpads 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 the 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. The 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 sheets or film that could cause condensation to form. Maintain covering throughout the remainder of construction period.

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

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Boulder, CO 80301

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e-mail: info@sustainablematerials.com

Website: <http://www.sustainablematerials.com>