

#### 1.1 SUMMARY

- A. SECTION INCLUDES:
  - 1. Recycled rubber cork
  - 2. Recycled rubber cork / Recycled rubber square-edge tile
  - 3. Adhesives
  - 4. Finishes
- B. RELATED SECTIONS
  - 1. Section 03300 Cast-In-Place Concrete Floor substrate requirements.
  - 2. Section 06200 Rough Carpentry: Floor substrate requirements.
- 1.2 REFERENCES
  - A. American Concrete Institute (ACI):
    - 1. ACI 302.2R Guide for Concrete Slabs that Receive Moisture-Sensitive Flooring Materials
  - B. American Society for Testing and Materials (ASTM):
    - 1. ASTM D883 Standard Terminology Relating to Plastics.
    - 2. ASTM D1566 Standard Terminology Relating to Rubber.
    - 3. ASTM D2047 Standard Test Method for Static Coefficient of Friction of Polish-Coated Flooring Surfaces as Measured by the James Machine.
    - 4. ASTM D2240 Standard Test Method for Rubber Property Durometer Hardness.
    - 5. ASTM E84 Standard Test Method for Surface Burning Characteristics of Building Materials.
    - 6. ASTM E90 Standard Test Method for Laboratory Measurement of Airborne Sound Transmission Loss of Building Partitions and Elements.
    - 7. ASTM E413 Classification for Rating Sound Insulation (STC).
    - 8. ASTM E492 Standard Test Method for Laboratory Measurement of Impact Sound Transmission Through Floor-Ceiling Assemblies Using the Tapping Machine
    - 9. ASTM E648 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
    - 10. ASTM E662 Standard Test Method for Specific Optical Density of Smoke Generated by Solid Materials.
    - 11. ASTM E989 Standard Classification for Determination of Impact Insulation Class (IIC).
    - 12. ASTM F137 Standard Test Method for Flexibility of Resilient Flooring Materials with Cylindrical Mandrel Apparatus.
    - 13. ASTM F141 Standard Terminology Relating to Resilient Floor Coverings.
    - 14. ASTM F376 Standard Test Method for Thickness of Resilient Flooring Materials Having Flat Surfaces.
    - 15. ASTM F710 Standard Practice for Preparing Concrete Floors to Receive Resilient Flooring.
    - 16. ASTM F925 Standard Test Method for Resistance to Chemicals of Resilient Flooring.
    - 17. ASTM F970 Standard Test Method for Static Load Limit.
    - 18. ASTM F1514 Standard Test Method for Measuring Heat Stability of Resilient Flooring by Color Change.

- 19. ASTM F1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride.
- 20. ASTM F1914 Standard Test Methods for Short-Term Indentation and Residual Indentation of Resilient Floor Covering.
- 21. ASTM F2055 Standard Test Method for Size and Squareness of Resilient Floor Tile.
- 22. ASTM F2199 Standard Test Method for Determining Dimensional Stability of Resilient Floor Tile after Exposure to Heat.
- 23. ASTM F2419 Standard Practice for Installation of Thick Poured Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring.
- 24. ASTM F2471 Standard Practice for Installation of Thick Poured Lightweight Cellular Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring.
- C. State of California (CA)
  - 1. CA Section 01350 Special Environmental Requirements (Indoor Air Quality)
- D. California Department of Public Health (CDPH)
  - 1. CDPH Standard Method v 1.2 Standard Method for Testing and Evaluation of Volatile Organic Chemical Emissions from Indoor Sources Using Environmental Chambers
- E. California High Performance Schools (CHPS)
  - 1. CHPS Section 01350 Low-Emitting Materials Criteria for Use in Classrooms.
- F. Declare<sup>™</sup>
  - 1. Product material disclosure labeling program.
- G. FloorScore®
  - 1. Indoor Air Quality (IAQ) certification for flooring materials, adhesives and underlayments.
- H. Living Building Challenge (LBC)
  - 1. LBC Chemical Red List Version 3.0.
- I. National Fire Protection Association (NFPA)
  - 1. NFPA 80 Fire Safety Code.
  - 2. NFPA 253 Standard Test Method for Critical Radiant Flux of Floor-Covering Systems Using a Radiant Heat Energy Source.
  - 3. NFPA 255 Standard Test Method for Surface Burning Characteristics of Building Materials.
  - 4. NFPA 286 Standard Methods of Fire Tests for Evaluating Contribution of Wall and Ceiling Interior Finish to Room Fire Growth.
- J. Resilient Floor Covering Institute (RFCI)
  - 1. Recommended Work Practices for Removal of Resilient Floor Coverings
- 1.3 SUBMITTALS
  - A. General: Submittals must be submitted the under provisions of Section 01300.
  - B. Product Data: Manufacturer's published documents on each product to be used, including:
    - 1. Storage and handling requirements.
    - 2. Installation instructions and initial maintenance instructions per Technical Data Sheets.

- 3. Maintenance and initial finish application instructions per Care & Maintenance documents.
- C. Selection Samples: For each finish product specified, two complete sets of color chips representing manufacturer's full range of available colors and patterns.
- D. Verification Samples: For each finish product specified, two samples, minimum size 6 inches (150 mm) square or one full tile, representing actual product, color, and patterns.

#### 1.4 SUSTAINABILITY REQUIREMENTS

- A. CA Section 01350 / CHPS Section 01350
  - a. Provide building materials that comply with CA Section 01350 and CHPS Section 01350 when tested in accordance with CDPH Standard Method v 1.2.
  - b. Provide test data or third party certification that confirms compliance, such as FloorScore certification.
- B. LBC Chemical Red List 3.0
  - a. Provide building materials that are Red List Free in accordance the LBC Chemical Red List 3.0.
  - b. Provide full material disclosure or third party certification that confirms compliance, such as Declare labeling.

#### 1.5 QUALITY ASSURANCE

- A. Qualifications:
  - 1. Installer Qualifications: Installer must be a professional, licensed and experienced installer. Installer must have familiarity with both the type, size and format of the product.
  - 2. Manufacturer's Qualifications: Manufacturer must provide remote and field technical support and service prior to, during and following installation, as necessary.
- B. Mock-Up:
  - a. Provide a mock-up for evaluation of product, surface preparation techniques and installation workmanship.
  - b. Do not proceed with remaining work until size, color, thickness, sheen and workmanship are approved by Architect, End-User and/or other stakeholders.
  - c. Maintain mock-up area as required in accordance with Care & Maintenance documents to produce acceptable work.

#### 1.6 DELIVERY HANDLING & STORAGE

- A. Ordering: Comply with manufacturer's ordering and lead time requirements to avoid construction delays.
- B. Storage: Store products in climate controlled space (65° F (19° C) 85° F (30° C)) for at least 48 hours prior to installation. Keep products in manufacturer's unopened packaging until ready for installation (except for rolled goods).
- C. Acclimation: Rolled goods must be unrolled and allowed to relax and acclimate for 24 hours prior to installation.

#### 1.7 PROJECT CONDITIONS

1. Environmental Conditions: Maintain environmental conditions (temperature, humidity, and ventilation) within limits recommended by manufacturer in accordance with

product technical data sheets. Do not install products under environmental conditions outside manufacturer's absolute limits.

- B. WARRANTY
  - 1. Project Warranty: Refer to Conditions of Contract for project warranty provisions.
  - 2. Manufacturer's Commercial Warranty: AND/OR 2.0 Rubber Cork shall be warranted for ten years for material or manufacture defects.

## PART 2 PRODUCTS

- 2.1 PRODUCT MANUFACTURERS
  - A. Acceptable Manufacturer:
    - 1. Capri Collections 215 Bucky Drive Lititz, PA 17543 P: 800.492.2613 E: sales@capricollections.com Web: www.capricollections.com

# SUBSTITUTIONS \*\* NOTE TO SPECIFIER \*\* Delete one of the following two paragraphs; coordinate with requirements of Division 01 section on product options and substitutions.

- A. Substitutions: Not permitted.
- B. Requests for substitutions will be considered in accordance with provisions of Division 01.
- 2.3 PRODUCT DIMENSIONS
  - A. Product: Capri AND/OR 2.0 Rubber Cork rolled goods, square-edge tile as manufactured by Capri Collections.
  - B. Square-Edge Tile Sizes (all sizes nominal):
  - C. \*\* NOTE TO SPECIFIER \*\* Delete sizes not required.
    - 1. 24 inches by 24 inches by 1/8 inches (610 mm by 610 mm by 3.2 mm) Incremental minimums will apply.
    - 2. 24 inches by 24 inches by 5/16 inches (610 mm by 610 mm by 8 mm) Incremental minimums will apply.
  - Rolled goods sizes (all sizes nominal):
    \*\* NOTE TO SPECIFIER \*\* Delete sizes not required. Adjust length based on desired cut, no less than 25 feet.
    - 1. 4 feet by 25'feet by 1/8 inches (1 m by 24 m by 3.2 mm)
    - 2. 4 feet by 25' feet by 5/16 inches (1 m by 10.5 m by 8 mm) Incremental minimums will apply.
- 2.4 PRODUCT COLOR \*\* NOTE TO SPECIFIER \*\* Delete colors not required.
- A. AND/OR Rubber Cork
  - 1. Alabaster AD4000
  - 2. Limestone AD4001
  - 3. Nickel AD4002
  - 4. Linen AD4003
  - 5. Rye AD4004
  - 6. Reed AD4005
  - 7. Canvas AD4006

- 8. Straw AD4007
- 9. Flax AD4008
- 10. Raffia AD4009
- 11. Carob AD4010
- 12. Onyx AD4011
- 13. Goldenrod AD4012
- 14. Persimmon AD4013
- 15. Pomegranate AD4014
- 16. Amethyst AD4015
- 17. Lapis AD4016
- 18. Sapphire AD4017
- 19. Malachite AD4018
- 2.5 PHYSICAL CHARACTERISTICS
  - A. ASTM F137 Flexibility: Passes
  - B. ASTM F970 Static Load Limit: Passes, 250 lbs.
  - C. ASTM F2199 Dimensional Stability: Passes, <0.05 in. change
  - D. ASTM F1514 Color Heat Stability: Passes, ΔE<8
  - E. ASTM F925 Chemical Resistance:
    - 1. White vinegar (5% Acetic Acid) Passes.
    - 2. Rubbing Alcohol (70% Isopropyl Alcohol) Passes.
    - 3. Lye (5% Sodium Hydroxide) Passes.
    - 4. Disinfectant Cleaner (5% Active Phenol) Passes.
    - 5. White Mineral Oil (medicinal grade) Passes.
    - 6. Household Bleach (5.25% NaOCI) Passes.
    - 7. Unleaded Gasoline Passes.
    - 8. Kerosene Passes.
  - F. ASTM D2240 Hardness: 85, Shore A
  - G. ASTM E648 (NFPA 253) Critical Radiant Flux: Class I, > 0.45 W/cm<sup>2</sup>
  - H. ASTM E662 (NFPA 258) Smoke Density: Passes, <450
  - I. ASTM E84 (NFPA 286) Flammability: Class C, 76 200
  - J. ASTM D2047 Slip Resistance: >0.8 (wet), >0.8 (dry)
  - K. ASTM E492/E989 Impact Sound Transmission 6" Concrete, Drop Ceiling: IIC 56
  - L. ASTM E90/E413 Airborne Sound Transmission 6" Concrete, Drop Ceiling: STC 54

## 2.6 PRODUCT FINISH \*\* NOTE TO SPECIFIER \*\* Finish is not optional when installed horizontally / as a floor.

- A. Only Capri Collections approved floor finishes shall be used when installing AND/OR 2.0 Rubber Cork.
  - 1. Site-Applied Urethane Finish: Loba 2K InvisibleProtect.
  - 2. Site-Applied Urethane Finish: Loba Supra AT Satin.
- B. Only Capri Collections approved floor finishes shall be used when installing AND/OR 2.0 Rubber Cork.
  - 1. Site-Applied Acrylic Finish: Hilway Direct Plus Matte. Vertical only.
  - 2. Site-Applied Acrylic Finish: Hilway Direct Plus Satin. Vertical only.
- 2.7 PRODUCT ADHESIVE

#### \*\* NOTE TO SPECIFIER \*\* Delete adhesive not required.

- A. Only Capri Collections approved adhesives shall be used when installing AND/OR 2.0 Rubber Cork.
  - 1. Gold Series MA 2000 Modified Acrylic Spray Adhesive
  - 2. Gold Series AA 2010 Acrylic Vertical Spray Adhesive
  - 3. Gold Series AW 3000 Acrylic Resilient Flooring Adhesive
  - 4. Gold Series MW 3012 Modified Silane Resilient Flooring Adhesive

# PART 3 EXECUTION

#### \*\* NOTE TO SPECIFIER \*\* Revise articles below to suit specific project requirements.

- 3.1 MANUFACTURERS INSTRUCTIONS
  - A. Compliance: Review and comply with manufacturer's technical data sheets, care & maintenance documents, warranty information, technical bulletins and written specifications.

#### 3.2 EXAMINATION

- A. Site Verification of Conditions:
  - 1. Verify substrate conditions, which have been previously installed under other sections, are acceptable for product installation in accordance with manufacturer's technical data.
  - 2. Do not begin installation until all substrates have been properly tested and prepared in accordance with Capri AND/OR 2.0 Rubber Cork technical data sheets and applicable ASTM, ACI, NWFA and RFCI standards.
  - 3. If substrate preparation is the responsibility of another installer, notify Architect of unsatisfactory preparation before proceeding.

#### 3.3 PREPARATION

- A. Cleaning: Clean surfaces thoroughly prior to installation.
- B. Substrate Preparation: Prepare surfaces in accordance with substrate preparation requirements published in Capri AND/OR 2.0 Rubber Cork technical data sheets.

#### 3.4 INSTALLATION

- A. Flooring Installation: Install materials in accordance with installation instructions published in Capri AND/OR 2.0 Rubber technical data sheets.
- B. Traffic Limits: Light foot traffic is allowed on the floor upon completion. No cleaning, finishing or placement of furniture should not occur in accordance with traffic limits published in Capri AND/OR 2.0 Rubber Cork technical data sheets.
- C. Initial Maintenance: Once adhesive has cured, perform initial maintenance in accordance with initial maintenance instructions published in Capri AND/OR 2.0 technical data sheets and care & maintenance documents.

#### 3.5 FINISH APPLICATION

- A. Initial Maintenance: Ensure surfaces have had initial maintenance performed in accordance with initial maintenance instructions published in Capri AND/OR 2.0 Rubber Cork technical data sheets and care & maintenance documents.
- B. Cleaning: Clean surfaces thoroughly prior to installation.
- C. Finish Application: Install finish in accordance with initial finish application instructions published in Capri AND/OR 2.0 Rubber Cork technical data sheets and care & maintenance documents.

- 3.6 MAINTENANCE
  - A. Daily Maintenance: Long-term care and maintenance must be performed in accordance with daily and routine maintenance instructions published in Capri AND/OR 2.0 Rubber Cork care & maintenance documents.
  - B. Finish Reapplication: Site-applied finish that is improperly applied or damaged may require finish re-application in accordance with finish removal and reapplication instructions published in Capri AND/OR 2.0 Rubber Cork care & maintenance documents.
- 3.7 PROTECTION
  - A. Temporary Floor Protection: Protect installed products until completion of project in accordance with flooring or material protection requirements published in Capri AND/OR
    2.0 Rubber Cork technical data sheets and care & maintenance documents.
  - B. Repair: Touch-up, repair or replace damaged products prior to Substantial Completion.
  - C. Permanent Floor Protection: Ensure furniture feet/bottom, glides and chair casters dimensions and materials are in accordance with floor protection requirements published in Capri AND/OR 2.0 Rubber Cork care & maintenance documents prior to Substantial Completion.

## **END OF SECTION**