

1. Product Identification

Zandur Cork Rubber Floor Tile
Vulcanized Homogeneous Rubber Cork Blend Floor Tile

2. Manufacturer

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3. Product Description

3.1 Basic Application

Zandur cork rubber flooring is a unique vulcanized flooring material made from 65% cork and 35% SBR rubber. It is intended for commercial use across all market segments including education, hospitality, healthcare and corporate. The product is well suited for areas where added slip resistance, comfort and durability are desired. Zandur Cork Rubber is a high performance floor covering product thoughtfully designed to deliver a floor that is more comfortable, quiet, green and beautiful than any other standard rubber flooring available today. The product is offered in 48 rich and vibrant colors. The product is also available in 4 profile designs including Smooth, Round Stud, Square Stud and Hammered. Additionally, any base color can be incorporated as an accent color fleck.

3.2 Composition and Material

Zandur Cork Rubber Flooring is made from 65% post industrial, recycled cork grain and 35% synthetic SBR rubber which includes light stable pigments, fillers and processing agents. The product is rated as Class I for fire and meets ASTM smoke density standards. By adding cork, the product achieves a high level of slip resistance meeting ADA recommendations as well as OSHA and UL standards (ASTM D-2047). The cork also contributes to reducing sound and adds comfort to the floor versus solid rubber flooring. The product meets CHPS (California High Performance Schools) criteria for indoor air quality, is anti-microbial and is highly resistant to stains.

3.3 Product Type and Dimensions

3.3.1 Zandur Cork Rubber Tile

- Available Surface Profiles: Smooth, Round Stud, Square Stud, Hammered
- Tile Dimensions: 24" X 24" nominal (602mm X 602mm)
- Tile Thickness:
 - o Smooth and Hammered Profiles 1/8" nominal (2.5mm)
 - o Round and Square Stud Profiles 1/8" nominal (3.0mm)
- Packaging: 20 Tiles per Carton
- Square Feet Per Carton: 78
- Weight Per Carton (approximate): 65lbs (30kgs)

3.4 Features and Benefits

- All 48 colors stocked in smooth surface texture
- Color and cork texture run through entire thickness of tile to ensure long life cycle
- Environmentally beneficial. Meets criteria for Numerous LEED credits.
- Manufacturer offers recycling program for tiles removed after use.
- Meets ADA recommendations for slip resistance as well as OSHA and UL recommendations.
- Cork adds significant advantages including comfort and sound reduction
- PVC and Halogen Free
- Meets CHPS section 01350 (California High Performance Schools) standards for indoor air quality.
- Stain resistant to common substances
- Extremely durable and dimensionally stable
- Available in 4 surface profiles and optional color fleck accents to meet the needs of any design pallet.
- Stock colors meet current design trends.
- Resistant to permanent indentation and scuffs.
- Meets ASTM F1344 rubber flooring standards.

4.0 Technical Data and Specifications

4.1 Technical Data

4.1.1 ASTM F-1344 Standard for Rubber Flooring – Meets all criteria

Test Standards	Requirement	ASTM Test
Hardness	Min 85 Shore A	D-2240
Static Load Limit	≤ 0.005 in. (.127mm) at 250lb (113.4kg) Load	F-970
Chemical Resistance	No more than slight change in surface Staining, dulling or attack	F-925
Resistance to Heat	Average Δ E not greater than 0.8	F-1514
Abrasion Resistance	< 1 gr. Loss after 1,000 cycles	D-3389
Dimensional Stability	Dimensional Change <0.15%	F-2199
Thickness	+/- 0.005 in. (0.127mm)	F-386

Size	+/- 0.018 in. (0.45mm)	F-2055
Squareness	0.005 in. (0.127mm) max.	F-2055
Quality of Cut	0.005 in. (0.127mm) max.	F-511

4.1.2 ASTM F-925 Resistance to Short Term Chemical Exposure. Meets Criteria

Rubber Floor tile shall have no more than slight change in surface from dulling, chemical attack or staining when exposed to the following chemicals:

- White Vinegar (5% acetic acid)
- Rubbing Alcohol (70% isopropyl alcohol)
- Sodium Hydroxide Solution (5% NaOH)
- Hydrochloric Acid Solution (5% HCL)
- Sulfuric Acid Solution (5% H2SO4)
- Household Ammonia Solution (5% NH4OH)
- Household Bleach (5.25% NaOCl)
- Disinfectant Cleaner (5% active phenol)

4.1.2 Other Tests

- ASTM D-412 Tensile Strength >750 psi
- ASTM D-412 Elongation >120%
- ASTM D-2047 James Test: 0.76 static coefficient of friction
- ASTM E-648 Flammability: Class I
- ASTM E-662 Smoke Density <340
- ASTM G-21 Mold Growth: Mold Resistant/Anti-Microbial

4.2 Architects Material Specifications – Cork Rubber Flooring

All tile floors shown in the finish schedule or listed in this specifications as cork rubber flooring shall be Zandur Cork Rubber Flooring, manufactured by Zandur, Nottingham, PA. The tile shall conform to ASTM F-1344, class I. The tile shall be _____ (1/8 in. nominal (2.5mm) thick for Smooth and Hammered profiles or 1/8” nominal (3.0mm) for Round and Square stud profiles). Tile shall be 24 in. by 24 in. nominal (602mm X 602mm). The color shall be _____(insert color name and number) and the surface profile shall be _____ (insert smooth, round stud, square stud or hammered). Tile shall have a color fleck incorporated throughout entire thickness in color _____ (insert color name and number)

5.0 Product Limitations and Precautions

Zandur cork rubber tile must be installed in accordance with manufacturers instructions. Tiles are to be laid with directional arrows printed on back (if present) facing the same direction. Product shall be dry laid to ensure color and pattern consistency prior to gluing to sub-floor. It is the responsibility of the floor covering installer to verify all physical characteristics of product as correct and acceptable prior to installation. This includes verification of correct tile dimensions, color, color and shade consistency between tiles, pattern consistency, inspection for visual defects and any other manufacturing imperfections and/or irregularities. Any imperfections or concerns must be reported in writing directly to Zandur. Zandur cork rubber tile must be installed with Zandur adhesive #10, an acrylic emulsion adhesive, or WW Henry #452 two part epoxy

where heavy rolling loads or excessive surface moisture are present. Specific precautions to avoid material damage include but are not limited to avoiding exposure to intense heat and UV light, avoiding direct contact with other rubber products such as doormats which can stain product, avoiding prolonged contact with potentially staining chemicals and materials, and preventing submersion under water. Additional precautions include testing any cleaners or other chemicals that will come into contact with flooring material to ensure they will not damage or discolor flooring. These chemicals or materials shall be tested for compatibility prior to use on or around floor covering prior to installation. Objects must be carried or transported on rollers sufficient to distribute weight so as not to scuff, scratch or otherwise damage the floor. Never drag objects across flooring. Zandur cork rubber is not suitable for use in commercial kitchens and such use will void product warranty. Product shall be installed indoors only. All local, state and federal practices and safety standards shall be followed.

6.0 Installation

6.1 General Preparation and Acclimation

Upon receipt from manufacturer, cartons of tile and adhesive shall be inspected for damage and material shall be verified as correct. In the event any irregularities are found, contact Zandur within 30 days of receipt. Prior to installation, obtain and read all manufacturer instructions regarding product warranty, sub-floor preparation, product installation and maintenance. Materials shall be delivered to job site in original packaging with corresponding labels and instructions attached. Upon delivery of material to job site, remove plastic wrapping and straps. Do not stack pallets. Storage of materials shall be in a dry environment stacked on a pallet no more than 12 cartons high. Keep material away from moisture, direct sunlight and heating or air conditioning vents or devices. Temperature shall be maintained between 65°F (19°C) and 75°F (24°C). Forty Eight (48) hours prior to installation, remove materials from cartons, stack on a dry level surface in area where product is to be installed. Temperature shall be maintained between 65°F (19°C) and 75°F (24°C) and relative humidity shall be maintained below 80% at a consistent level. Prepare subfloor according to ASTM F-710 using recommended concrete sub-floor leveling and patching products. Ensure that moisture emissions, sub-floor relative humidity and pH are within recommended guidelines. Twelve (12) hours after leveling sub-floor and no less than seventy two (72) hours prior to installation of flooring, a test installation of 4 tiles must be completed to ensure compatibility of floor covering, adhesive and sub-floor. After seventy two (72) hours, tiles should be extremely difficult to remove. If they can be easily removed and/or concrete looks dark under the tiles, this suggests sub-floor related problems which must be remediated prior to continuation of the project. For applications over radiant heated sub-floors, using the recommended adhesive for this use, install only over a sub-floor with temperature maintained between 65°F (19°C) and 75°F (24°C) for 36 hours prior to, during and 72 hours after installation. Follow all local, state and federal standards, warnings and practices in regard to safety, use and/or disposal of all products and equipment.

6.2 Sub-Floor and Substrate Inspection and Preparation

6.2.1

Proper sub-floor preparation is critical. All guidelines contained in these instructions must be followed to ensure a successful floor covering installation. Should you have any questions regarding sub-floor preparation, contact Zandur or your local distributor. Zandur products must be installed on a subfloor that is dry, clean, smooth and structurally sound. The sub-floor must be free of contaminants such as paint, oil, wax, mold, adhesive residues, sealers or any other materials that may interfere with adhesive bonding. Prior to installation an adhesive bond test must be performed by gluing four (4) tiles to the sub-floor. Allow adhesive to cure seventy two (72) hours. If bond is sufficient, tile will be laying flat and will be extremely difficult if not impossible to remove by hand. Existing flooring must be removed or (if installed on a wood subfloor) covered with 1/4" or 1/2" plywood. If product must installed over existing flooring material, contact Zandur prior to installation for substrate approval and specific instructions. Sub-floors shall be level to within 3/16" in 10' and shall be patched or skim coated with a hard setting underlayment compound to ensure substrate is completely smooth. Ardex or equal products with a minimum compressive strength of 3,000 psi are recommended. Do not apply patching material over existing adhesives. Zandur will not accept claims submitted on floors where patching materials have been applied over adhesive residue. After patching or skimming is complete, floor must be sanded or scraped to remove any trowel marks or inconsistencies which may telegraph through the flooring material. Follow manufacturers guidelines for product use. Gypsum based products with a compressive strength less than 3000psi are not approved for use. Installation over gypsum based products with a compressive strength greater than 3,000 psi is possible, however an adhesion test must be performed. Sub-floor suitability is not guaranteed by Zandur therefore, precautions must be taken to ensure compatibility.

6.2.2 Preparation of Wood Sub-Floors

Zandur floor covering products may be installed over 3/8" or greater A/C grade plywood or underlayment board such as Tecply or Halex (Arctic or Baltic Birch). Zandur products are not approved for installation over panel underlayments such as Masonite, luan, particle board, OSB, cementitious underlayment panel or wood underlayment with knots or coated wood. Prepare wood sub-floor per ASTM F 710, *Standard practice for installation and preparation of panel type underlayment to receive resilient flooring*, as it relates only to approved wood underlayments. Follow manufacturers instructions for sub-floor panel installation regarding fastening pattern and joint spacing. Use suitable screws or ring shank nails. Do Not use drywall screws. Once installed, patch subfloor with cementitious material as instructed in section 6.2.1.

6.2.3 Preparation of Concrete Sub-Floors

Concrete sub-floors shall be prepared in accordance with ASTM F 710 *Standard practice for preparing concrete sub-floors to receive resilient flooring*. Pay specific attention to possible presence of a sealer which must be removed. It is highly recommended to shot blast or bead blast existing concrete sub-floors prior to installation to remove sealers, adhesives and/or any other surface contaminants. Concrete sub-

floors on or below grade must have a moisture retarder and all concrete subfloors, regardless of age, must be tested for the moisture vapor emission rate and relative humidity to ensure the sub-floor is suitable for floor covering installation. Testing of concrete shall be performed when the building is enclosed and when the HVAC system has been in operation for at least 7 days. Furthermore, job-site temperature and humidity must be at the level expected during normal use or in the range of 65°F (19°C) to 75°F (24°C) and 45% to 65% relative humidity. Moisture tests must be performed at a rate of 3 for the first 1,000 square feet and then 1 additional test per additional 1,000 square feet. Moisture Vapor Emission Rate shall not exceed 3 lbs./1,000 square feet/24 hours as tested in accordance with ASTM F 1869 (Calcium Chloride Test). Concrete Relative Humidity shall not exceed 75% as tested in accordance with ASTM F 2170 (Relative Humidity Probe Test). Sub-Floor pH must be tested with wide range pH paper and verified to be no greater than 9. Test as per ASTM F-710. Level sub-floor as specified in section 6.2.1. Allow patching materials to dry naturally without the use of direct air or temporary HVAC.

6.2.4. Terrazzo and other non-porous substrates

Flooring may be installed over terrazzo floors, however terrazzo must be bead or shot blasted.

6.2.5 Radiant Heated Sub-Floors – Concrete and Wood

Lightweight concrete such as Gypcrete or other gypsum based products are commonly used with radiant systems and may have an insufficient compressive strength. Concrete sub-floors must have a compressive strength greater than 3000 PSI and must be dust free. If after cleaning, a white dust is present when you wipe the floor it is most likely of insufficient compressive strength. Only in-slab or below sub-floor radiant heating systems are compatible with Zandur materials. Do not install product over mat type systems. Heat must be limited to a maximum of 85°F (30°C) at all times during and after installation. Prior to sub-floor preparation, heating system must be activated to achieve a surface temperature between 65°F (19°C) and 75°F (24°C) for a minimum of five (5) days prior to sub-floor preparation or installation of flooring.

6.3 Adhesives

6.3.1 Zandur #10 Acrylic Tile Adhesive

Zandur #10 acrylic tile adhesive is a solvent free, water soluble acrylic adhesive for use on indoor installations of cork rubber floor tile. The product is intended for use only on approved concrete or plywood sub-floors on or above grade. Zandur #10 adhesive shall be used for normal applications where heavy rolling loads (including casters chairs) are not common and where lateral shear stresses are not excessive. Furthermore, this adhesive is limited to use where flooring will not be exposed to excess topical moisture or liquids. Temperature of room and sub-floor shall be maintained between 65°F (19°C) and 75°F (24°C) for installations where adhesive #10 is used. For areas subjected to excessive topical moisture or liquids and/or heavy rolling loads and lateral stress, W.W.

Henry #452 two-part epoxy shall be specified for use. Zandur #10 adhesive is spread using a 1/16" X 1/16" X 3/32" U-notch trowel. The estimated spread rate per gallon is 150 square feet when properly applied. Coverage will vary depending upon trowel angle, surface porosity and type of surface. Adhesive is available in 4 gallon containers. Excessive adhesive application must be prevented. This problem is evidenced by oozing of adhesive at the seams, wrinkles in the flooring and bubbles which will telegraph through the finished floor. Shelf life for adhesive is 1 year in unopened containers and shall be stored in a dry environment with temperature maintained between 65°F (19°C) and 75°F (24°C). Adhesive working time is approximately 20 minutes depending upon temperature, humidity and barometric pressure. Adhesive is no longer open when it does not transfer to the back of the tile when tile is laid into glue (prior to rolling). Wet adhesive may be cleaned with a water dampened cloth. Dry adhesive can be removed with a lightly dampened cloth by gently rubbing the adhesive off. Do not rub flooring excessively, use any solvents or use abrasive materials as scratching and discoloration may result. Obtain and read product MSDS and follow all local state and federal regulations in terms of use and product disposal.

6.3.2 W.W. Henry #452 Two-Part Epoxy Adhesive

W.W. Henry #452 is a two part epoxy adhesive. The product is intended for use where installations will be subjected to heavy rolling loads (including repetitive use of castered chairs) , excessive lateral stress and areas subjected to contact with excessive surface moisture. Henry #452 epoxy adhesive is spread using a 1/32" X 1/16" X 5/65" V-notch trowel. Coverage will vary depending upon trowel angle, surface porosity and type of surface. Adhesive is available in 2 gallon containers. Excessive adhesive application must be prevented. This problem is evidenced by oozing of adhesive at the seams, wrinkles in the flooring and bubbles which will telegraph through the finished floor. Shelf life for adhesive is 1 year in unopened containers and shall be stored in a dry environment with temperature maintained between 65°F (19°C) and 75°F (24°C). Adhesive working time is approximately 45 minutes depending upon temperature, humidity and barometric pressure. Tile may be installed into adhesive immediately after troweling. Adhesive is no longer open when it does not transfer to the back of the tile when tile is laid into glue (prior to rolling). Wet adhesive may be cleaned with warm soapy water. Dry adhesive is extremely difficult to remove and cannot be removed with water or solvents. Do not rub flooring excessively or use abrasive materials as scratching and discoloration may result. Obtain and read product MSDS and follow all local state and federal regulations in terms of use and product disposal.

6.4 Adhesive Use and Product Installation

6.4.1 Zandur Cork Rubber Flooring Installation using Zandur #10 acrylic adhesive.

Flooring, adhesives and finishes shall be acclimated to jobsite at least 24 hours prior to installation. Except to verify material is correct and within specifications, it must remain in its original packaging during acclimation period. Job site conditions must be maintained between 65°F (19°C) and 75°F (24°C) with a relative humidity between 45% and 65% for 72 hours prior to, during and 72 hours after installation. Temporary heating

may not be used during acclimation or installation. Air must be free of dust and must be circulating normally. Ensure that the correct Ardex or equal cementitious patching compound was used and is properly cured. If sub-floor or patching material is easily scratched, indented or is dusty even after being cleaned, installation cannot occur. Contact your distributor or Zandur for assistance. Prior to installation, randomly remove a few pieces of material from different cartons and compare to submittal sample to ensure client is satisfied with color, shade and/or shade variation. Additionally, verify tiles are square and otherwise visually acceptable. If the material does not meet client expectations, contact Zandur to arrange for replacement material. Installation signifies acceptance of material in all visual aspects. After the product is installed, the Zandur warranty does not cover incorrectly shipped or use of incorrect materials regardless of the situation. Additionally the Zandur warranty does not cover visual defects including pattern, color, shade variance, squareness or thickness after the product is installed. Install floor tile sanded/stamped side down. Install tiles so that all directional arrows (if present) point the same direction. In order to verify adhesion, four (4) tiles must be glued to the sub-floor 72 hours prior to installation. After 72 hours, the tile should lay flat and be difficult if not impossible to remove by hand. Should tile be curled or not adhered in any way, contact Zandur. DO NOT proceed with installation. Materials may be installed in both an ashlar (staggered joint) pattern or corner to corner. Installer may work off of previously installed material, however a knee board must be used to ensure that indentations in the uncured adhesive do not occur. Caution must be taken to ensure tiles do not slide underfoot. Use chalk to mark installation lines, however it is recommended to re-mark chalk lines with pencil as adhesive MUST be troweled over the line to ensure 100% adhesive coverage particularly along the edge of the tiles. Materials may be cut using a sharp utility knife and straight edge. Using the recommended trowel, apply adhesive in a uniform, semi-circle pattern. Do not over trowel adhesive (which gradually removes it). Ensure that there are no lumps or ridges created by the leading trowel tip. Imperfect troweling can telegraph through the floor. Apply adhesive to an area which can be installed in approximately 20 minutes. Once troweled onto floor, adhesive should be left open (don't install yet) for 5 minutes. At that time, you may begin to install tile and should have about 20 minutes of open time. When adhesive does not transfer to your finger when touched lightly, the adhesive is no longer open and must be removed and reapplied. Adhesive open times may vary greatly due to relative humidity temperature and porosity of the sub-floor. Tile should be installed tightly against adjacent tile, however tiles should not be pushed together forcefully or edges may peak. Within 10 minutes of installing material, roll in two directions using a 100 lb 3-section roller. Roll floor again 30-45 minutes after installation. Look for any edges or corners that are raised and hand roll. If the edge or corner does not stay down, verify first to see if something is under the tile. If not, weigh down material with a sand bag. If air bubbles are present, either use a small needle to let air out or remove and re-install tile. Immediately after installation, inspect floor for any raised tile edges or adhesive on the tile. Should you find any raised edges, remove any substance causing the raised edge and weight down that particular area for twenty four (24) hours. To remove any adhesive on the tile surface, remove with a lightly water dampened cloth. Use of any solvents can cause discoloration of the floor and should not be used. Dry adhesive can be removed with a water dampened cloth by gently rubbing off the

adhesive. Upon completion of installation, allow adhesive to cure for a minimum of twenty four (24) hours before normal use. Floor shall be appropriately protected with kraft paper or other material suitable to protect flooring material from building activities. Any protection used must allow floor to breathe due to curing process. Therefore, solid plastic sheeting is not recommended.

6.4.2 Zandur Cork Rubber Flooring Installation using W.W. Henry #452 Two Part Epoxy Adhesive

Flooring, adhesives and finishes shall be acclimated to jobsite at least twenty four (24) hours prior to installation. Except to verify material is correct and within specifications, it must remain in its original packaging during acclimation period. Job site conditions must be maintained between 65°F and 75°F (24°C) with a relative humidity between 45% and 65% for 72 hours prior to, during and 72 hours after installation. Temporary heating may not be used during acclimation or installation. Air must be free of dust and must be circulating normally. Ensure that the correct Ardex or equal cementitious patching compound was used and is properly cured. If sub-floor or patching material is easily scratched, indented or is dusty even after being cleaned, installation cannot occur. Contact your distributor or Zandur for assistance. Prior to installation, randomly remove a few pieces of material from different cartons and compare to submittal sample to ensure client is satisfied with color, shade and/or shade variation. Additionally, verify tiles are square and otherwise visually acceptable. If the material does not meet client expectations, contact Zandur to arrange for replacement material. Installation signifies acceptance of material in all visual aspects. After the product is installed, the Zandur warranty does not cover incorrectly shipped or use of incorrect materials regardless of the situation. Additionally the Zandur warranty does not cover visual defects including pattern, color, shade variance, squareness or thickness after the product is installed. In order to verify adhesion, four (4) tiles must be glued to the sub-floor 72 hours prior to installation. After 72 hours, the tile should lay flat and be difficult if not impossible to remove by hand. Should tile be curled or not adhered in any way, contact Zandur. DO NOT proceed with installation. Materials may be installed in both an ashlar (staggered joint) pattern or corner to corner. Install floor tile marking side down. Install tiles so that all directional arrows (if present) point the same direction. Use a 1/32" X 1/16" X 5/64" V-notch trowel for Henry 452 adhesive. According to W.W. Henry instructions, mix part A and part B of adhesive at a 1:1 ratio. Mix thoroughly. Henry 452 has a working time of approximately 45 minutes. Tile can be laid immediately after adhesives is troweled on the floor. Do Not work off of installed tiles as they can slide. Trowel adhesive in rows 25" wide to allow you to set tiles from the uninstalled area. If this is not possible, use blue masking tape to hold tiles together and a piece of plywood to distribute weight when working on installed tiles. Roll tile 3 times. The first time within 15 minutes of installation then 30 and 60 minutes after that. Tiles shall be pushed tightly together and seams shall be rolled with a hand roller. Tape seams with blue masking tape if they separate and weight down immediately any areas where a bubble appears. During installation, inspect for proper shade blending and tile adhesion and repair or remove tile as required. Tiles can be cut with a utility knife and a straight edge. Wet adhesive may be

removed with warm soapy water. Dry adhesive is not possible to remove except by using a blunt scraper. This method is not recommended as damage to tile can occur which is not covered by the Zandur warranty. Upon completion of installation, allow adhesive to cure for a minimum of 72 hours before normal use. Floor shall be appropriately protected with kraft paper or other material suitable to protect flooring material from building activities. Any protection used must allow floor to breathe due to curing process. Therefore, solid plastic sheeting is not recommended.

7.0 Product Maintenance

7.1 Required Initial Maintenance

7.1.1 Initial Cleaning Do not mop, sand, screen, buff or expose floor to any liquids until the floor has cured for a minimum of seventy two (72) hours after installation. Floor may be swept or vacuumed during this time. Remove protective materials from flooring and sweep or vacuum any debris from the floor. Be aware that debris such as concrete or other abrasive materials can scratch the floor if caught under vacuum head. If dried Zandur #10 adhesive is found on the floor, use a damp rag and rub the adhesive off the floor. W.W. Henry #452 cannot be removed by chemical means and must be mechanically removed with a scraper. Any damage caused by this process is not warranted. DO NOT use any solvent on the floor. Using a well wrung out damp mop with warm water only, remove all remaining dust, dirt and debris from the floor. Continually change water to ensure it is clean. This process may need to be performed a few times in order to remove all foreign material. Using Johnson Diversey Profi, damp mop floor with a well wrung out cotton blend mop according to manufacturers instructions. Use a low RPM buffer/auto-scrubber with a soft green or blue pad to scrub floor. DO NOT flood the floor with water, but instead, apply only enough water to ensure the buffer is not working on a dry floor. Using a wet-vac, remove excess water. Repeat this process until floor/water is clean. Once floor is clean, mop the floor with warm water only, buff with a white pad and remove any excess water. An optional coating of floor finish is recommended to enhance ease of maintenance and provide further protection against staining, damage or other possible affects of use. Caution. During all maintenance processes, floor coverings will become slippery. Maintenance personnel shall use appropriate signs and barriers to prevent use of floor during maintenance processes. Zandur shall not be responsible for any accidents as a result of slipping or falling on floor coverings with or without optional floor finishes applied as slip resistance of flooring materials is affected by normal maintenance procedures.

7.1.2 Optional Floor Finish Application To improve ease of maintenance and add further protection of flooring material, Zandur recommends the application of Johnson\ Diversey Carefree Matte Floor Finish. This product, applied by qualified maintenance personnel, is used commonly on many types of resilient flooring. It can be applied in just a few hours and can be walked on immediately when dry. Floor finish can also increase scuff resistance and resistance to staining in certain applications. Caution: Floor will change the coefficient of friction of the flooring material. Contact floor finish manufacturer for coefficient of friction data. Prior to the initial application of the floor finish, complete post installation maintenance as specified in section 7.1.1. Apply

Johnsons Carefree Matte or equal according to manufacturers instruction. Apply a minimum of 4 coats using a clean cotton blend mop. When a coat is applied properly, the floor should only look wet. During application, finish should not be puddled or appear white. If that occurs, too much finish is being applied. Numerous THIN coats will provide the best results in terms of scuff resistance and durability. Re-application of floor finish shall occur when finish begins to show signs of wear. The re-coating process can be performed overnight and is immediately ready for traffic when dry. Proper regular maintenance will significantly increase the length of time before the floor needs to be coated again.

7.1.3 Routine Maintenance (once per day or as required) Every installation experiences different conditions including type of use and traffic level. Therefore, a maintenance regime shall be specified by qualified maintenance personnel based specifically on use and facility needs. This maintenance program shall include the processes and procedures as specified in this document. Proper routine maintenance will ensure that the floor is clean of dirt or grit which can cause premature wear and damage. When floors have been coated with a finish, the maintenance regime shall include recoating cycles based upon manufacturer recommendations. Regular maintenance must include the following. Sweep or vacuum floors to remove surface dust and debris. Use of a cotton dust mop is recommended. Damp mop floor with a well wrung out damp mop and a mild detergent such as Johnson Diversey Profi or Stride Neutral Cleaner. Rinse with warm water.

7.1.4 Infrequent Maintenance Typically performed once per week or less as dictated by use and traffic level. Damp mop with Johnson Diversey Profi or Stride Neutral Cleaner according to the manufacturers recommended dilution and scrub with soft green or blue pad on a low RPM buffing machine. Ensure that floor is not flooded with water, however there must be enough water to ensure that buffer is not on a dry floor. Use a wet-vac to remove excess water then rinse with warm water.

7.1.5 Recoating with Optional Floor Finish For floors with optional finish applied, re-coating of the floor shall typically once per month to once per year as required by use, maintenance and traffic level. Prior to recoating, clean floor according to instructions in 7.1.3 and 7.1.4. Then proceed to apply 3-4 coats of finish as specified in section 7.1.2.

7.1.6 Removal or Stripping of existing floor finish For certain high-traffic installation, it may be desirable to remove existing floor finishes and re-apply new finish. This is suggested when floor finishes begin to look aged or worn or when a revitalization of product gloss is desired. Stripping of floor typically occurs infrequently. Zandur recommends the use of Johnson Diversey LinoStrip Stripper. Obtain and follow manufacturers specific instructions for use on cork rubber flooring from Johnson Diversey.

7.1.7 Maintenance Cautions and Warnings The application of floor sealers will change the slip resistance properties of Zandur floor covering products. Once a floor sealer is applied, the floor will take on the slip resistance properties of the finish. Any

questions regarding the slip coefficient of floor finishes shall be directed toward the manufacturer of the finish. If an optional floor finish is applied, the floor will become slightly darkened. Prior to initial application, maintenance personnel shall apply finish to a small area to ensure satisfaction with the procedure and resulting look of the product. Use extreme caution with floors that are wet or become slippery from exposure to any material present on the tile surface. If floor surface does become exposed to materials that create a slip hazard, proper barriers and signage shall be posted to prevent use of the specific area until the hazard is removed. In the event that floor strippers are used, perform a test of the stripping process in out of sight area or on a scrap of material to ensure flooring is not damaged by process. Some stripping materials can damage flooring.

8.0 Availability and Pricing All material is available directly from Zandur or its local designated sales group. Contact Zandur at 888.397.2656 or visit zandur.com to locate your local sales group. Pricing is available through these sources as well.

8.1 Samples Product samples may be obtained by contacting your local Zandur sales group or contacting Zandur directly at 888.397.2656. Prior to installation of any product, submittal samples shall be compared to product delivered to job site to ensure correct materials.

9.0 Technical Assistance Technical assistance is available directly through Zandur by calling 888.397.2656. For product specifications, use instructions and MSDS's, you may also refer to zandur.com.

10.0 Limited Warranty Zandur Cork Rubber Floor Tile is covered by a limited 10 year wear thought warranty and limited 1 year manufacturing defect warranty. This warranty specifically covers Zandur Cork Rubber flooring. Zandur products are carefully inspected according to applicable industry standards and established quality assurance programs. Final inspection and approval is the customer's responsibility. The customer must approve and verify that patterns and colors are correct before installation. Zandur products are made with a significant content of natural raw materials, therefore slight shade variation is normal and is not considered a defect. Zandur will not accept claims after installation of incorrect material, visually defective material or material that does not meet customer expectations in terms of shade variation or color consistency. Installation of material confirms customer acceptance of pattern, color, shade, appearance and all other visual factors including but not limited to squareness and thickness. All aspects of the limited warranty are subject to the terms and conditions specified herein. In the event that there is any dissatisfaction whatsoever with the product PRIOR TO INSTALLATION, material may be returned to Zandur. Should material be found to be defective, return freight charges will be reimbursed by Zandur. This warranty does not apply to adhesives, sealers, finishes or any other installation/maintenance products supplied by Zandur. Those products are warranted by their original manufacturer. Warranty information on those products is available upon request.

For a period of ninety (90) days after initial invoice date, Zandur warrants that its flooring products meet published technical specifications. Due to the natural content of the products, dimensional stability of the product in its *uninstalled* state cannot be guaranteed after this period.

For a period of one (1) year after initial invoice date, Zandur warrants its flooring to be free of manufacturing defects. For a period of ten (10) years after initial invoice date, Zandur warrants its product against excessive wear as is defined below. This limited warranty is available only to the original customer.

10.1 Warranty Exclusions Items Specifically Excluded From Limited Warranty include, Damage due to unusual wear and tear, including but not limited to indentations scratches or other damage caused by high heels, spike heels, furniture, fixtures or animals; Visually or otherwise defective material AFTER installation; Damage due to discoloration including but not limited to fading or staining; Failure due to irregularities in sub-floor, improper preparation of sub-floor or improper use of sub-floor materials; Damage due to moisture including but not limited to subfloor moisture emissions and/or hydrostatic pressure; Damage due to accident, abuse or neglect; Dissatisfaction or damage due to improper maintenance or improper use of maintenance products and/or site applied finishes or sealers; Dissatisfaction, problems or damage due to use of improper installation, use of improper installation tools and/or materials or installation in areas unsuitable for the product; Dissatisfaction based upon shade or color variations in the tiles after installation; Wear through of factory or site applied finishes; Labor and/or other costs associated with sub-floor preparation and/or flooring installation; Materials sold as "Off Goods" or "Seconds" which are sold "as is" and for which no warranties of fitness for a particular purpose or merchantability implied or otherwise apply.

THIS LIMITED WARRANTY IS EXCLUSIVE AND IN LIEU OF ANY WARRANTY OF MERCHANTABILITY, FITNESS FOR A PARTICULAR PURPOSE OR ANY OTHER WARRANTY, WHETHER EXPRESSED OR IMPLIED, AND ALL OTHER LIABILITIES AND OBLIGATIONS ON THE PART OF ZANDUR OR ITS PARENT COMPANY RB&G PRODUCTS. LLC. THERE ARE NO WARRANTIES WHICH EXTEND BEYOND THE DESCRIPTION ON THE FACE OF THIS DOCUMENT. SOME STATES DO NOT ALLOW LIMITATIONS ON HOW LONG AN IMPLIED WARRANTY LASTS, SO THE ABOVE LIMITATION MAY NOT APPLY TO YOU.

10.2 Notice of Claims: All claims must be made in writing and sent to Zandur 80 Nottingham Dr., Nottingham, PA 19362. Claims must be accompanied by original product invoice. Zandur requires that all claims be received within 30 days after buyer discovers reason for the claim. All claims not made in writing or those received after the time period specified shall be deemed waived.

10.3 Limitation of Liability. The buyer's sole and exclusive remedy against RB&G, Products, LLC. or Zandur for a breach of warranty or for damage caused by a defective product shall, at the option of Zandur, be limited to repair or replacement of the defective material, or refund of the purchase price. Zandur will not be liable for or accept

claims for labor to remove and/or reinstall its flooring or any other associated costs. In no event shall Zandur be liable for direct, indirect, general, special, incidental, consequential or other damages of any kind whatsoever, regardless of the causes of such damage. Some states do not allow the exclusion or limitation of incidental or consequential damages, so the above limitation or exclusion may not apply to you. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

10.4 Limited Wear Through Warranty. Zandur warrants that its floor covering products will not wear excessively. Excessive wear is defined as wear greater than .0035" in thickness per year. The Limited Wear Warranty shall be considered void should maintenance and/or use deviate from Zandur's published instructions and specifications. Zandur shall, at its option, repair or replace damaged flooring or credit end user based upon a prorated schedule of original material cost, the balance of cost to be born by the end user. This warranty is limited to only the specific damaged material and does not apply to the entire floor where the excessive wear has occurred. Labor and other associated costs are specifically excluded from this warranty.