

Roppe Wood Naturals™ Solid Vinyl Tile



Product Data

Section 9
Resilient Flooring



1. Product Nomenclature

Roppe Wood Naturals Solid Vinyl Tile

2. Manufacturer

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3. Product Description

3.1 Basic Application

Roppe Wood Naturals solid vinyl tile is designed for use in commercial and residential applications. Roppe Wood Naturals solid vinyl tile is constructed from high quality vinyl components laminated under heat and pressure. Wood Naturals emulates the warmth and feel of real-wood flooring, without the hassle of real-wood maintenance. Wood Naturals are available in a variety of styles, from Cherry, walnut and oak to maple, ash and pecan. All colors are available at a Single Price Point.

3.2 Product Construction

Roppe Wood Naturals solid vinyl tile is a laminated vinyl tile specifically formulated for durability, ease of maintenance, and UV stability to retard fading or yellowing. An embossed surface enhances the rich look of wood, while adding slip resistant qualities to the tile. Precision cutting allows for easy installation with tight seams. Wood Naturals has a 0.040" (1.02mm) wear layer, specifically formulated for durability, ease of maintenance, and UV stability to retard fading or yellowing & fully conforms to Meets ASTM F 1700, Specification for Solid Vinyl Tile; Class III, Type B.

3.3 Product Type and Dimensions

Gauge: 1/8" (3.175mm) nominal.

Tile Edges: Available in straight or beveled edge.

Sizes: Standard size 3" x 36" (76.2mm x 914.4mm) planks and 12" x 12" (304.8mm x 304.8mm) and 18" x 18" (457.2mm x 457.2mm) tiles are available.



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Tile Packaging: 3" x 36" (76.2mm x 914.4mm) planks = 45sq/ft per box; 12" x 12" (304.8mm x 304.8mm) Square Tile = 45sq/ft per box and 18" x 18" (457.2mm x 457.2mm) Square Tile = 45 square feet per box.

Weight per Square Foot: 3" x 36" (76.2mm x 91.4cm) planks = 42 lbs. per box; 12" x 12" (304.8mm x 304.8mm) Square Tile = 42 lbs. per box, and 18" x 18" (457.2mm x 457.2mm) Square Tile = 42 lbs. per box.

Colors: Available in Tacoma Cherry, Heritage Walnut, Bainbridge Oak, Vantage Oak, Camden Oak, Greenwich Maple, Newport Maple, Antique Walnut, Golden Maple, Caramel Ash, Burnt Pecan and Warm Cherry.

3.4 Features and Benefits

- Superior performance of 100% pure vinyl & a 10-year limited wear warranty.
- Contains 10% post-industrial waste, which can contribute to the LEED® Green Building Certification System.
- 40 mil (1.02mm) wear layer exceeds ASTM F-1700 spec for commercial use by 100%. Durable and resistant to wear, indentations, delamination and shrinkage.
- Available in 3" x 36" (76.2mm x 914.4mm) planks, 12" x 12" (304.8mm x 308.4mm) or 18" x 18" (457.2mm x 457.2mm) tiles with a straight or beveled edge.
- Full 1/8" (3.175mm) construction helps conceal subfloor imperfections and allows for flush installation with other 1/8" products.
- All colors/grains available at a Single Price Point.

4. Technical Data

4.1 Technical & Specification Data

4.1.1 Meets ASTM F 1700, Specification for Solid Vinyl Tile; Class III, Type B.

(Required ASTM Characteristics and Tests)

Characteristics	Requirement	Test Method
Size, tolerance	± 0.016 in. /lin. Ft (0.4mm/305mm)	F-2055
Thickness	As Specified ± 0.005 in. (0.13mm)	F-386
Squareness	Maximum 0.010 in. (0.25mm)	F-2055
Residual Indentation	Average less than 8%, maximum single reading 10%	F-1914
Flexibility	1 in. (25.4mm) mandrel, no crack or break	F-137



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Dimensional Stability	0.020 in. /lin. Ft. (0.51mm/305mm)	F-2199
Resistance to Chemicals	No more than slight change in surface dulling surface attack, or staining.	F925
Resistance to Light	Delta E < 8 ave., max	F-1515
Resistance to Heat	Delta E < 8 ave., max	F-1514

(Additional ASTM Characteristics and Test)

- 4.1.2 ASTM E648 (NFPA 253), (Fire Resistance), Radiant Panel Test: > 0.45' Class 1
- 4.1.3 ASTM E662 (NFPA258), Specific Optical Density of Smoke Generated by Solid Materials: Passes, < 450
- 4.1.4 ASTM D 2047, Static Coefficient of Friction (Slip Resistance): 0.52 (tested dry)
- 4.1.5 ASTM F 970, Static Load Limit: 250 psi; Modified ASTM F970, 300 psi
- 4.1.6 ASTM D 3389, Abrasion Resistance: Excellent <0.15 weight loss after 1,000 cycles using H-18 wheels with 500 gram load applied
- 4.1.7 ASTM F 925, Resistance to Chemicals: Excellent:

When tested in accordance with Test Method ASTM F 925 (short-term exposure), the vinyl tile shall have no more than a slight change in surface dulling, surface attack, or staining when exposed to the following chemicals:

- White Vinegar (5 % Acetic Acid)
- Rubbing Alcohol (70 % Isopropyl Alcohol)
- White Mineral Oil (Medicinal Grade)
- 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)



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Olive Oil (light)

Unleaded Gasoline (regular grade)

Phenol (5 % active phenol)

Kerosene (K1)

NOTE —The basic chemicals are representative of those likely to be found in residential, commercial, and institutional use. Many proprietary compounds contain one or more of these basic chemicals. Should the flooring for an unusual application need to be resistant to a specific chemical, this additional requirement should become part of the procurement document.

4.2 Architects' Material Specifications – WOOD NATURALS SOLID VINYL TILE

Roppe Wood Naturals shown in the finish schedule or listed herein as Roppe _____ (insert design name) Solid Vinyl Tile shall be Roppe's 1/8" (3.175mm) nominal thickness. The tile shall be constructed of first quality laminated PVC, and shall be free from imperfections which detract from its appearance. The tile shall conform fully to ASTM F-1700, Class III, Type B furnished by Roppe Corporation, Fostoria, Ohio. Each. All vinyl tile shall be of the _____ style (specify pattern), _____ (straight or beveled edge) and of 1/8" (3.175mm) thickness. The tile shall be _____ (3" x 36" {76.2mm x 914.4mm} planks and 12" x 12" {304.8mm x 304.8mm} and 18" x 18" {457.2mm x 457.2mm} square tiles) and in the _____ (insert color) color selected.

5. Product Limitations/Precautions

Roppe Wood Naturals Solid Vinyl Tile must be installed using either the Roppe 360 Acrylic Tile & Stair Tread Adhesive or Roppe 535U "Universal" Urethane Enhanced Epoxy Adhesive. Roppe 535U "Universal" Urethane Enhanced Epoxy Adhesive **must** be used for installations below grade or where the subfloor is in contact with the earth, in areas where the flooring will be subjected to lateral shear stresses and/or rolling loads and approved non-porous and slightly flexing (i.e.; metal) substrates. The product must be installed in accordance with Roppe's recommendations in order for the product warranty to be in effect. Solid vinyl tile may be stained if it is allowed to remain in contact with rubber products that may contain staining ingredients such as tires, casters, and walk-off mats. Wood Naturals Solid Vinyl Tile is not to be used in or near commercial kitchens or in areas exposed to animal fats, greases, oils, solvents, strong detergents, or where there is excessive moisture. Ensure any disinfectant, cleaning agent, dye, floor care product, pesticide, chlorine or other chemical (solid, liquid, or gas) that may come in contact with the flooring will not produce permanent discoloration and/or damage to the flooring. If any chemical that may come in contact with the flooring is not on the stain resistance chart, the flooring must be tested prior to installation. **Notice:** It is the Flooring Installer's direct responsibility to inspect and loose lay the flooring in the room or area prior to installation to determine the proper layout and best overall appearance. Flooring Installer must inspect all



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material for manufacturing imperfections and irregularities prior to installation. All manufacturing imperfections or irregularities must be reported to the appropriate authority. Wood Naturals Solid Vinyl Tile must be installed in accordance with Roppe's recommendations in order for the product warranty to be in effect. Wood Naturals Solid Vinyl Tile may be stained if it is allowed to remain in contact with rubber products that may contain staining ingredients such as tires, casters, walk-off mats, and walk-off residue from asphalt driveways and sealers. Fading can occur from extensive exposure to heavy direct or glass-filtered sunlight, or unfiltered ultra-violet rays. Excessive heat from non-environmentally controlled areas, glass-filtered or direct sunlight or unfiltered ultra-violet rays can also have an adverse effect on the adhesive also, and should be avoided to prevent adhesive bond failure. Roppe Wood Naturals Solid Vinyl Tile must not be used in areas that may be subjected to sharp spikes, cleats, sharp wheels, or other objects that could damage the flooring. DO NOT drag or move objects across the flooring or drop objects onto the flooring that may cause damage to the flooring. Use appropriate floor and furniture protection devices. The flooring is not to come in contact with direct heat, such as radiators, hot ovens, or other heated equipment. Ensure the proper product is used for the service application with regard to type and amount of traffic. There is to be no foot traffic on the tile or cleaning for at least 48 hours and no wheeled conveyances for at least 3 days. For interior use only; with temperatures maintained from 65° F (19°C) and 85°F (30°C). Follow all local, state, and federal safety standards and practices.

6. Installation

6.1 General Preparation and Conditioning

Read the literature concerning the product description, product limitations, product installation, adhesive information, product maintenance, and warranty before installing the tile. All materials are to be delivered to the installation location in its original packaging with labels intact. Store products in a dry area protected from the weather on a smooth, flat, dry surface with temperatures maintained between 65° F (19°C) and 85° F(30°C). DO NOT stack pallets. Remove the tile from the cartons and stack evenly on a smooth dry surface with each stack no more than 18" high at least 48 hours prior to installation in order to acclimate. The installation area, substrate, tile, and adhesive are to be maintained between 65°F (19°C) and 85°F(30°C) for at least 48 hours before installation, during installation, and thereafter. Maintain room temperatures between 65° F (19°C) and 85° F (30°C) thereafter to prevent adhesive failure and to prevent distortion or destruction of the Wood Naturals Solid Vinyl Tile flooring. Notice: The Wood Naturals Solid Vinyl Tile should be loose laid in the room or area prior to spreading of adhesive to determine the proper layout to ensure the best overall appearance. Inspect all material for proper type and color. Conduct the proper moisture emission and pH testing on the substrate. Proceed with the installation only when the conditions are proper and correct. A bond test using the ROP360 Acrylic Tile & Stair Tread Adhesive or ROP535U "Universal" Two-Component Urethane Enhanced Epoxy Adhesive throughout the area approximately 50 feet apart should be performed at least one week prior to the scheduled installation to ensure the surface is suitable. After 72 hours, there should be an unusual amount of force to lift the tile flooring from the substrate with adhesive bonding to the tile and the substrate. DO NOT proceed with the installation if the concrete subfloor has darkened, if



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visual moisture is present or if adhesive is still wet. Each is clear indications of subfloor moisture problems. Close the area to traffic during flooring installation. Install tile and accessories after other finishing operations, including painting, have been completed. Prevent the back of the tile from becoming contaminated and protect the face from damage. If the back of the tile becomes soiled prior to installation, clean with a soft cloth dampened with denatured alcohol. Wood Naturals Solid Vinyl Tile may be installed over radiant heated floors, provided the surface temperature is maintained between 65°F (19°C) and 85°F (30°C) excluding the use of ROP360 Acrylic Tile & Stair Tread Adhesive. If radiant-heated floors have cooled after installation, a gradual increase in temperature is required to prevent adhesive bond from being adversely affected. Warning: Follow all local, state, and federal standards and practices for the proper removal and disposal of flooring, adhesives, or other materials. Follow all local, state, federal, and manufacturer's safety standards for the use of all products and equipment.

6.2 Subfloor/Substrate Inspection and Preparation

6.2.1 All subfloors/substrates must be inspected prior to installation. All substrates must be clean, smooth, permanently dry, flat, and structurally sound. The substrate must be free of moisture, dust, sealers, paint, primers, curing compounds, parting agents, residual adhesives, adhesive removers, hardeners, resinous compounds, solvents, wax, oil, grease, asphalt, gypsum compounds, alkaline salts, excessive carbonation or laitance, mold, mildew, any other extraneous coatings, films, materials and all other foreign matter which might interfere/restrict proper adhesive bonding. DO NOT use sweeping compounds, solvents, adhesive removers, or acid etching to clean the substrate. DO NOT install flooring over gypsum-based or plaster based leveling or patching compounds. DO NOT install new floor covering over old floor covering, as the old floor covering may not be adequately bonded, hide possible structural defects, or cause plasticizer migration into the new flooring. In renovation or remodel work, remove all existing *adhesive residue so that 100% of the overall area of the original subfloor/substrate is exposed. Follow The Resilient Floor Covering Institute's (RFCI) "Recommended Work Practice for Removal of Existing Floor Covering and Adhesive, and all applicable industry, local, state, and federal standards. Care must be taken to analyze the conditions and correct any problems prior to installation. Follow the manufacturer's recommendations for any patching or underlayment materials, excluding gypsum based or plaster based levelers or patching compounds.* Some previous manufactured asphaltic "cutback" contained asbestos. For removal instructions, refer to the Resilient Floor Covering Institute's publication "Recommended Work Practices for Removal of Resilient Floor Covering".

6.2.2 Concrete substrates on all Grade Levels must be tested in accordance with ASTM F 1869 Standard Test Method for Measuring Moisture Vapor Emission Rate of Concrete Subfloor Using Anhydrous Calcium Chloride or ASTM F 2170 Standard Test Method for Determining Relative Humidity in Concrete Floor Slabs using *in situ* Probes to quantitatively determine the amount of moisture vapor emission at least one week prior to the installation. **Caution:** ASTM F 1869 or ASTM F 2170 tests cannot predict long-term moisture conditions of concrete slabs. Moisture testing only indicates moisture conditions at the time the tests are performed. Before conducting ASTM F 1869 or ASTM F 2170 test, the installation area must be maintained between for 65°F



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(19°C) and 85°F (30°C) or at least 48 hours prior to testing, during testing and thereafter. In addition, the concrete's temperature range must also be identical to that of the installation area. Conduct three test for the first 1,000 sq. ft. and one additional test for each 1,000 sq. ft. or fraction thereof per grade level. The Vapor Emission Rate shall not exceed 5.0 lbs and Relative Humidity Test shall not exceed 75% when using ROP535U Universal Urethane Enhanced Epoxy Adhesive. ROP360 Vapor Emission Rate shall not exceed 4.0lbs and Relative Humidity Test shall not exceed 70%. If the substrate does not meet the above noted requirements, the flooring shall not be installed until the problem has been corrected. DO NOT install flooring if there is hydrostatic pressure. Every concrete floor slab on-grade or below grade to receive resilient flooring shall have a permanent, effective moisture vapor retarder installed below the slab. A pH test must be performed to test for excessive alkalinity using a pH pencil or litmus paper and deionized water. A scaly, sandy, or powdery surface is an indication of some form of contaminant, usually excessive alkalis or an alkali-silica residue. A pH reading higher than 8 is an indication of a potential problem and the concrete must be neutralized by rinsing with clear water. Apply clear water with a mop and allow to dry. Re-rinse with clear water, allow to dry and retest to ensure pH level is within acceptable range of 5 to 8 on the pH scale. Continue to neutralize until the pH level is acceptable. The testing of concrete for alkalinity indicates the degree of alkalinity only at the time the test is conducted, and cannot be used to predict long-term conditions. Moisture and alkali salts in the concrete can cause the following problems after installation: adhesive deterioration, bumps, ridges, bubbles, discoloration, mold, mildew, bacteria growth, efflorescence, tile shifting, tile releasing, tile peaking, or sheet seam curling. DO NOT install over burnished (slick troweled) concrete to avoid adhesive and underlayment patch or self-leveling bonding problems due to the non-porosity of the concrete finish. Corrective measures such as bead blasting (shot blasting) or scarifying must be performed prior to installation. The concrete slab must be of good quality, standard density concrete with low water/cement ratios consistent with placing and finishing requirements, having a maximum slump of 4", a minimum compressive strength of 3500 psi, and following the recommendations of ACI Standard 302.1R-96 for class 2 or call 4 floors and the Portland Cement Association's recommendations for slabs on ground. Joints such as expansion joints, contraction joints, isolation joints, saw cuts, control joints, grooves or other moving joints shall not be filled with patching compound or covered with resilient flooring. Expansion joint covers designed for use with resilient flooring should be used. Any non-moving surface cracks, depressions, and other irregularities shall be filled and smoothed with a high quality grade Portland cement-based, water resistant, non-shrinking, non-staining, mildew resistant, alkali resistant underlayment having a minimum compressive strength of 3500 psi after 28 days. Some underlayments may fail under excessive weight; an epoxy caulking compound may be required for certain repairs. Mechanically cleaning the substrate by shot-blasting, scarifying, or sanding shall be performed to achieve a flat, smooth, clean surface to prevent irregularities, roughness, or other defects from telegraphing through the new resilient flooring. The surface of the concrete shall be flat to within the equivalent of 3/16" in 10 feet, as described in ACI 117R. The surface shall be cleaned of all loose material by scraping, brushing, vacuuming, or other methods, or a combination thereof, immediately before commencing installation of resilient flooring. Follow the proper safety practices during the preparation and installation. Follow the recommendations of the American Concrete Institute (ACI 302.1R, *Guide for Concrete Floor and Slab Construction*; ACI



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360.R, *Design of Slabs on Grade*; ACI 223, *Standard Practice for the Use of Shrinkage-Compensating Concrete*); The American Society for Testing and Materials (ASTM F 710, *Standard Practice for Preparing Concrete Floors and Other Monolithic Floors to Receive Resilient Flooring*), and the American National Standards Institute (ANSI A157.1, *Recommended Practice for Concrete Floor and Slab Construction*) for the preparation of concrete to receive resilient flooring. Refer to 6.2.1.

6.2.3 Wood subfloors to be used as subfloors/substrates are to follow the procedures recommended in 6.2.1 and 6.2.2. Wood subfloors should be of double layer construction with a minimum thickness of 1". Crawl spaces underneath wood subfloors shall be in compliance with local building code ventilation practices and have clearance of at least 18" of cross-ventilated space between the ground level and joists. Wood joists should be spaced on no more than 16" centers. Place a moisture retarder; having a maximum rating of 1.0 perm, on the top of the ground under the wood subfloor overlapped at least 8". APA, The Engineered Wood Association, Underlayment Grade plywood, minimum 3/8" thick, with a fully sanded face is to be used. Use APA approved exterior grade plywood if finished floors are subjected to moisture. OSB, lauan, maranti, solid-core mahogany, waferboard, particleboard, chipboard, flakeboard, tempered hardboard, glass mesh mortar units or cementitious tile backer boards, sheathing-grade plywood, preservative-treated plywood, or fire-retardant treated plywood are not recommended as some manufacturers may use resins or other adhesives in the manufacturing of the product that may cause discoloration or staining of the flooring. Wood subfloor movement, flexing or instability will cause the flooring installed to release, buckle or become distorted. Do not proceed with the installation until corrective measures have been made. The warranties, performance, installation, and use are the responsibility of the manufacturer and/or contractor. DO NOT use plastic or resin filler to patch cracks. DO NOT use cement or rosin coated nails or staples or solvent-based construction adhesive to adhere the plywood. Installation on a sleeper, a wood subfloor system constructed over the top of concrete, is not recommended. Installation directly over Sturd-I-Floor panels is not recommended. All wood subfloors, single construction plywood floors, single and/or double tongue-and-groove strip floors, and wood plank floors must be prepared to receive resilient flooring in accordance with federal and industry standards. Follow the recommendations of the APA, The Engineered Wood Association, *Design/Construction Guide, Residential and Commercial*, and ASTM F 1482, *Standard Guide to Wood Underlayment Products Available for Use Under Resilient Flooring*, for the installation and proper construction of the panels to receive resilient flooring. It is the contractor's responsibility to determine if the subfloor is acceptable to receive the flooring.

6.2.4 Cementitious Terrazzo and ceramic floors to be used as subfloors/substrates are to follow the procedures recommended for concrete in 6.2.1 & 6.2.2. Ceramic tile must be solidly adhered and all loose tiles must be removed and repaired or replaced. Ensure all glazed, sealed, smooth, and/or shiny surfaces are properly sanded and cleaned. Fill all grout lines and other irregularities with a manufacturer's recommended Portland cement-based underlayment with a minimum compressive strength of 3500 psi. The subfloor must be structurally sound. Inspect and ensure there is an adequate bond of the old flooring to the original substrate. Do not install over epoxy based terrazzo. Cementitious terrazzo must first be sanded to remove all



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finishes, and then cleaned. Conduct a bond test with adhesive to ensure a successful bond can be achieved before installing. Roppe **will not** warranty the product if there is a bond failure caused by problems relating to the old flooring.

6.2.5 Metal floors to be used as subfloors/substrates must be thoroughly cleaned of any residue, oil, paint, primer, sealer, rust, and oxidation and properly sanded/grinded to provide a smooth, level, clean substrate to receive flooring. The flooring must be installed within 12 hours after sanding/grinding to prevent the metal from re-oxidizing. The metal subfloor shall be structurally sound. Deflection of the metal can cause a bond failure between the adhesive and the metal substrate. It is the contractor's responsibility to decide the feasibility of the application, and Roppe Corporation will not be held liable for failures caused by flexing or deterioration of metal substrates. On an extremely smooth, non-porous, metal substrate, a longer "tack up" may be required in order to prevent the adhesive from oozing between the seams. Refer to 6.2.1. Caution: The installation of flooring material will not prevent deterioration of metal substrates from occurring.

6.3 Adhesive Application

6.3.1 ROP360 Acrylic Tile & Stair Tread Adhesive: ROP360 Acrylic Tile & Stair Tread Adhesive is a solvent free, high strength, acrylic adhesive for indoor installations over recommended and properly prepared concrete and wood subfloors only, on grade or above grade only. Use of ROP360 adhesive is limited to casual foot traffic, in areas where there are no lateral shear stresses or rolling loads, nor in areas that will not be subjected to topical moisture or liquids. ROP360 Spread coverage using a 1/32" x 1/16" x 1/32" "U" notch trowel is approximately 200-300 square feet per US gallon on a smooth or non-porous substrate. Over smooth or non-porous substrates, allow adhesive to "flash-off" 20 minutes before installing. Coverage will vary according to the type of surface, surface texture, spreading angle, and adhesive temperature. Over extremely porous or rough concrete, a 1/16" x 1/16" x 1/16" Square notch trowel is required (125-184 sq/ft/gal) & allow adhesive to "flash-off" for 10 minutes before installing. Approximate Working Time: 20-30 minutes (depending on substrate temperature, humidity & trowel size). At least 90% transfer of adhesive to the products backing is required. Excessive heat or movement of any kind or from non-environmentally controlled areas, glass-filtered or direct sunlight or unfiltered ultra-violet rays can have an adverse effect on both the tile and adhesive, and these condition or substrates should be avoided to prevent adhesive bonding & tile failure. Caution: If too much adhesive is applied, oozing at seams, air-bubbles and telegraphing can occur along with permanent adhesive displacement and unsightly areas when the floor is rolled. Therefore, test trowel size and flooring prior to installation to avoid the above noted potential problems. Adhesive is available in 1-gallon and 4-gallon pails. Shelf Life: Limited to one year from date of manufacture stored at 70°F (21°C) in unopened container. Freeze Thaw Stability: The adhesive is freeze-thaw stable to 5 cycles at 20°F (6°C); however, it is recommended to protect all adhesive products from freezing. If frozen, DO NOT stir until material has completely thawed.

ROP360 Acrylic Tile and Stair Tread Adhesive Calculated VOC's according to California SCAQMD Rule #1168: <13 grams per liter of coating. SCAQMD Rule 443.1: Grams of VOC per Liter of Material: < 10 gram/liter.



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6.3.2 Roppe 535U “Universal” Urethane Enhanced Epoxy Two-Part Adhesive: Roppe 535U “Universal” Urethane Enhanced Epoxy is a solvent-free, two-component adhesive for high performance installations of Roppe Wood Naturals Solid Vinyl Tile. ROP535U “Universal” is recommended for indoor installations over properly prepared and recommended concrete, plywood, metal and other non-porous substrates, on grade, below grade, or above grade. ROP535U “Universal” Adhesive must be used for installations in areas where the flooring will be subjected to lateral shear stresses and/or rolling loads, in areas subjected to topical moisture or other liquids, and over metal and some other non-porous substrates, in addition to radiant-heat floors. The spread coverage over porous or rough substrates using the required 1/16” x 1/16” x 1/16” square notch trowel is approximately 100- 125 square feet (Part A & B Mixed) per US gallon. Over non-porous or smooth substrates, the spread coverage using the required 1/32” x 1/16” x 1/32” “U” notch trowel is approximately 125-185 square feet (Part A & B Mixed) per US gallon. Coverage will vary according to the type of surface, surface texture, spreading angle, and adhesive temperature). Caution: If too much adhesive is applied, oozing at seams, air-bubbles, adhesive displacement, and telegraphing can occur when the floor is rolled or exposed to rolling loads resulting in loose and unsightly areas. Therefore, test trowel size and flooring prior to installation to avoid the above noted potential problems. Adhesive is available in 1-gallon units. Shelf life is one year @ 70°F (21°C) in an unopened container. Approximate Working Time: After properly mixed and immediately poured onto substrate: 30 - 40 minutes (depending on substrate temperature & trowel size). Although the epoxy components are non-freezing, the adhesive must be allowed to stabilize to ambient temperature before mixing. Any adhesive on the surface of the tiles or surrounding area must be removed immediately with a clean cloth dampened with warm soapy water or denatured alcohol. DO NOT allow the adhesive to cure on the surface of the flooring. A bond failure will occur if the epoxy is not properly mixed. Label information is in English and Spanish. Read all of the product and safety information concerning the adhesive and any other chemicals or cleaning agents prior to installation.

Roppe 535U “Universal” Solvent Free Urethane Enhanced Epoxy Flooring Adhesive Calculated VOC’s according to California Rule #1168: Roppe 535U Part A: 1.3 grams per liter of coating. Roppe 535U Part B: 2.4 grams per liter of coating. ROP535U Part A & Part B Mixed Calculated VOC’s: 1.21 grams per liter of coating.

6.4 Adhesive Application and Product Installation

6.4.1 Roppe Wood Naturals Solid Vinyl Tile Installation using ROP360 Acrylic Tile & Stair Tread Adhesive: Read product limitation/precautions and installation literature before proceeding. Follow safety precautions on the adhesive label and Material Safety Data Sheet. Must have adequate ventilation. Un-box the tile and allow it to acclimate at least 48 hours before installing. If more than one box is used, ensure each have the same run number. The room must be precisely measured in order to square-off the area, in order to determine the center point. First, measure area where tile is to be installed to determine the best starting position in the room. Then use a chalk line to mark two lines that intersect these positions at right angles, creating four (4) quadrants. Starting at the corner of one (1) quadrant, install tiles while staggering end-joints at least 6” apart from each



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other, ensuring proper tile alignment. Alignment is to be checked continuously throughout the installation and corrected if needed. Carefully select the ideal layout to avoid seams in high traffic areas, while achieving an equal balanced in the room, and all side cuts should be equal in dimension. Fit tile tightly together. Seams are approximately 6" away from any seams in the underlayment or substrate. Allow enough material for doorways, closets and alcoves etc. Allow an extra 3" for trimming or more if necessary for walls that are not square. Dry lay the flooring first to ensure desired aesthetics can be achieved & check for manufacturing imperfections and irregularities prior to installing. If the back of the flooring becomes soiled prior to installation, clean with a soft cloth dampened with denatured alcohol and allow to dry before installing. Pour the adhesive onto the substrate and spread evenly using a 1/32" x 1/16" x 1/32" "U" notch trowel for smooth or non-porous substrate, and allow adhesive to "flash-off" 20 minutes before installing. Note: Over extremely porous or rough concrete, a 1/16"x 1/16" x 1/16" Square notch trowel is required, and allow adhesive to "flash-off" for 10 minutes before installing Caution: If too much adhesive is applied, oozing at seams, air-bubbles and telegraphing can occur along with permanent adhesive displacement when the floor is rolled. Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the flooring is installed, which would result in a bond failure. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile and to prevent permanent adhesive displacement, and to also not track the adhesive onto the tile. Lay the tile into the adhesive to avoid trapping air. DO NOT drop the tile into the adhesive. DO NOT fit the tile forcibly. Using excessive pressure to fit the tile can cause peaking. Starting at the center, slowly roll and cross roll with a 100-pound 3-section roller within 15 minutes after each section has been installed. Re-roll & cross roll 30-45 minutes after initial rolling. The rolling time may need to be adjusted to climate conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual inspection during the rolling process to ensure there has been no shifting of the tile and that there is no adhesive on the surface of the tile. DO NOT wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Clean the seams of any adhesive. DO NOT trowel fresh adhesive over previously spread adhesive. The adhesive ridgeline can telegraph through the product. After the first section of the tile has been laid and rolled, repeat the procedure for the remaining sections. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too "wet". Immediately remove excessive wet adhesive with a soft, clean cloth dampened with warm soapy water. Periodically, lift the flooring to check for proper adhesive transfer. There should be at least a 90% coverage or better of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. It may be necessary to weight the tile's seams to ensure they remain flat and level. The flooring for borders and other specialty areas must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, and other obstacles. Forcing incorrectly sized tile or cut pieces into smaller areas will cause buckling of the flooring. DO NOT wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. There is to be no foot traffic on the floor for at least 48 hours and no maintenance performed for at least 3 days. Protect flooring against mars, marks, indentations and other damage.



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6.4.2 Roppe Wood Naturals Solid Vinyl Tile Installation using Roppe 535U “Universal” Urethane Enhanced Epoxy Two-Part Adhesive: Read product limitation/precautions and installation literature before proceeding. Follow safety precautions on the adhesive label and Material Safety Data Sheet. Must have adequate ventilation. Un-box the tile and allow it to acclimate at least 48 hours before installing. If more than one box is used, ensure each have the same run number. The room must be precisely measured in order to square-off the area, in order to determine the center point. First, measure area where tile is to be installed to determine the best starting position in the room. Then use a chalk line to mark two lines that intersect these positions at right angles, creating four (4) quadrants. Starting at the corner of one (1) quadrant, install tiles while staggering end-joints at least 6” apart from each other, ensuring proper tile alignment. Alignment is to be checked continuously throughout the installation and corrected if needed. Carefully select the ideal layout to avoid seams in high traffic areas, while achieving an equal balanced in the room, and all side cuts should be equal in dimension. Fit tile tightly together. Seams are approximately 6” away from any seams in the underlayment or substrate. Allow enough material for doorways, closets and alcoves etc. Allow an extra 3” for trimming or more if necessary for walls that are not square. Dry lay the flooring first to ensure desired aesthetics can be achieved & check for manufacturing imperfections and irregularities prior to installing. If the back of the flooring becomes soiled prior to installation, clean with a soft cloth dampened with denatured alcohol and allow to dry before installing. Remove the lids and add all of Part B into Part A. Mix the combined parts with the furnished paddle using a rotary motion while at the same time lifting from the bottom. DO NOT mix partial units of this adhesive! ROP535U Universal Flooring Adhesive is packaged in two separate containers marked Part A (polyurethane epoxy resin) and Part B (polyamide resin, hardener). Mix adhesive by hand or use a slow speed less than 300 RPM maximum, drill with an attached mixing paddle. Mix 3-5 minutes. After mixing, the adhesive must be one consistent solid color. Caution: Higher mixing speeds and/or longer mixing time will reduce the open time/working time and can cause premature curing of the adhesive. Adhesive will not cure if not properly mixed. DO NOT allow the mixed epoxy adhesive to remain in the container. Immediately after mixing, pour the contents onto the porous substrate and immediately spread the adhesive evenly over smooth substrates using a 1/32” x 1/16” x 1/32” square “U” notch trowel, being careful to leave no puddles of adhesive. Note: Over extremely porous or rough concrete, a 1/16”x 1/16” x 1/16” Square notch trowel is required. Caution: If too much adhesive is applied, oozing at seams, air-bubbles and telegraphing can occur along with permanent adhesive displacement when the floor is rolled or subjected to rolling loads resulting in loose or unsightly areas. Spreading large areas of adhesive in excess of 150 square feet could possibly allow the adhesive to cure or setup before the flooring is installed which would result in a bond failure. Caution: Allowing the adhesive to remain open too long will result in bond failure. When laying the flooring, use a kneeling board, or for best results, work off the flooring whenever possible to avoid shifting of the tile and prevent permanent adhesive displacement, and to also not track the epoxy adhesive onto the tile. Lay the tile into the adhesive to avoid trapping air. DO NOT drop the tile into the adhesive. DO NOT fit the tile forcibly. Using excessive pressure to fit the tile can cause peaking. Starting at the center, slowly roll and cross roll with a 100-pound 3-section roller. Re-roll flooring 30 minutes after initial rolling. The rolling time may need to be adjusted to climatic conditions. Use a hand roller in areas that cannot be reached with the larger roller. Conduct a visual



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inspection during the rolling process to ensure there has been no shifting of the tile and that there is no adhesive on the surface of the tile. DO NOT wait until the entire installation is completed before rolling as the adhesive may have surpassed the open time and be cured. Clean the seams of any adhesive. The ridges of the adhesive should be flattened. After the first section of the tile has been laid and rolled, repeat the procedure for the remaining sections. If the adhesive is bleeding or oozing at the seams, either too much adhesive is being applied, or the adhesive is too “wet”. Immediately remove excessive wet adhesive with a soft, clean cloth dampened with warm soapy water. Periodically, lift the flooring to check for proper adhesive transfer. There should be at least a 90% coverage or better of adhesive on the back of the flooring. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not begun to cure. It may be necessary to weight the tile’s seams to ensure they remain flat and level. The flooring for borders and other specialty areas must be scribed and cut to fit snugly, not tightly, against the wall, threshold, transition strip, fixtures, and other obstacles. Forcing incorrectly sized tile or cut pieces into smaller areas will cause buckling of the flooring. DO NOT wait until the entire main aisle flooring has been installed to begin laying the borders. Lay the border tiles within the adhesive open time. There is to be no foot traffic on the floor for at least 48 hours and no wheeled conveyances nor maintenance performed for at least 3 days. Protect flooring against mars, marks, indentations and other damage.

7. Product Maintenance/Precautions

7.1 Initial Maintenance

7.1.2 Floor Preparation after Initial Installation and Prior to applying Optional Floor Sealer & Finish: There is to be no foot traffic on the tile or cleaning for at least 48 hours and no wheeled conveyances for at least 3 days. New Wood Naturals Solid Vinyl Tile has a mold release agent on the wear surface from the manufacturing process which MUST be removed prior to allowing traffic of any kind, and prior to applying Optional Floor Sealer & Finish. Failure to remove this mold release agent can result in a low traction floor (i.e.: Slippage) or a surface that is not compatible with floor finish. To remove the mold release, scrub the floor with a diluted Spartan Chemical (800-537-8990) stripper such as Rinse Free Stripper, L.O.E., or Green Solutions Floor Finish Remover at a 1:5 dilution. Use a 175 rpm single disk machine equipped with either a brush for floors with or a green pad. Pick up the cleaning solution with a wet/dry vacuum and then rinse the floor with clear water. Insufficient cleaning will reduce the life of the flooring. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure.

7.1.3 Mild-Neutral PH Cleaning or Disinfectants - (Non Sealer/Finish Applications): The amount of maintenance required is directly related to the amount and type of traffic and type of particulates deposited on the floor. Sweep, dust mop or vacuum the flooring to remove dirt and other particulates. Use a mild, neutral (ph 7-8) cleaner such as Spartan Chemical's Damp Mop or Green Solutions All Purpose Cleaner. If a disinfectant is required, use Spartan Chemical's DMQ Neutral Disinfectant Cleaner or Green Solutions Neutral Disinfectant Cleaner. Follow the



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manufacturer's recommendations for dilution and use. For smaller applications, apply the diluted cleaning solution to the flooring with a soft-bristled desk brush (required for textured, slate and raised profiles) or nylon mop (required for smooth profile floors). Do Not flood the floor. Allow the cleaning solution to stand for approximately 10 - 15 minutes. Do Not allow solution to dry. For small applications, scrub with a soft-bristled deck brush. For large applications, scrub the are with a single disc 175 RPM maximum scrubbing machine equipped with a soft-bristled scrubbing brush (required for textured, slate and raised profiles) or 3M 4100 White Super Polish Pad (required for smooth finish profiles). Ensure brush or pad does not scratch the flooring. Wet vacuum or mop up residue. Rinse with clean, cool water. Remove the rinse water with a wet/dry vacuum and allow flooring to dry thoroughly before exposing to traffic. Do Not use highly alkaline, highly acidic or solvent- base cleaners or products of any kind. DO NOT use sweeping or cleaning agents containing oil or solvents. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure.

7.1.4 Dry Buffing - (Non Sealer/Finish Applications): After wet-cleaning the flooring, dry buffing should be performed on routing basis to maintain the floors natural surface luster. DO NOT dry buff the floor until it has been cleaned with clean, cool water. Remove rinse water with a wet/dry vacuum and allowed to dry completely. For large installations, dry polish with single disc 175-350 maximum RPM polishing machine using a soft-bristled nylon brush if the floor has a surface profile (required for textured, slate and raised profiles) or a 3M 4100 White Super Polish Pad if the floor has a smooth profile. If a higher gloss is preferred, then buff with a 1,000 RPM (maximum) polishing machine with a 3M 4100 White Super Polish Pad. DO NOT heel the polishing machine or scratch the flooring. For small installations, use a soft, clean cloth wrapped around a narrow push broom. If an optional floor finish is desired for a higher sheen, refer to section 7.1.5. Caution: When floor sealers and finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Roppe Corporation will not be held liable for the slip resistance effects of their flooring if it is coated with a floor sealer or finish. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure.

7.1.5 Optional Floor Sealer & Finish Application: Roppe's Wood Naturals is manufactured with a 0.040" (1.046mm) PVC Wear layer and does not require Floor Sealers or Finishes to be applied. However, If a floor sealer/finish is preferred, first follow sections noted in Section 7.1.2. Once the mold release has been completely removed, test for proper adhesion by applying Spartan Chemical's Shinline Sealer (24% solids thermoplastic sealer) to a small area with a sponge and allow to completely dry. If the finish pulls back and does not level out, repeat step 7.1.2 until the sealer is firmly bonded. If the sealer does level and is firmly bonded, Spartan Shinline Sealer can be used to seal the floor by applying with a finish mop. Once Shinline Seal has been applied and properly dry, apply 1-2 very thin coats of the Spartan floor finish that meets your traffic and maintenance needs. Each coat of floor finish must be applied in opposite directions to ensure proper coverage regardless of the flooring profile (i.e.: smooth, textured,



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slate or raised profiles). Contact your Spartan Chemical Representative or Spartan Chemical (800-537-8990) directly for proper finish recommendations to meet specific traffic and maintenance requirements. If an environmentally preferable product is desired, apply 1-3 very thin coats of Spartan Green Solutions Floor Seal & Finish (acrylic co-polymer based floor seal and finish combination) in lieu of Shinline Sealer. Apply sealers or finishes in very thin coats to avoid puddles. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. Caution: Applying sealers or finishes will darken the floorings original color. When applying sealers or finishes always check first for compatibility, bonding and color darkening of the flooring by testing on a scrap piece of flooring to ensure the desired results and appearance is achieved. The floor care product manufacturer will assist you in determining the best maintenance program. Spartan Chemical's product selection is listed below for reference depending on frequency/infrequency of maintenance schedule to be performed on the flooring. Caution: When floor sealers and finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Roppe Corporation will not be held liable for the slip resistance effects of their flooring if it is coated with a floor sealer or finish. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic.

A. Frequent Maintenance Schedule: Described as "at least twice a week or as often as every day". Notice: Finishes listed below must be burnished (polished until shinny) in order to maintain gloss levels. Burnish frequency will depend on several factors including but not limited to the following: Type of finish, traffic, equipment, internal/external conditions, type of floor, labor/budget available, and end user expectations.

* Spartan Chemical Product Selections for Frequent Maintenance Schedules:

- o High Frontier
- o Upper Limit's
- o TriLinc
- o Trendsetter Sealer/Finish
- o Pro-Shine
- o Heavy Duty Wax 16%
- o Glacier

B. Infrequent Maintenance Schedule: Described as "once a week to never". Notice: The products listed below are considered Dry-Bright Finishes which dry to a particular gloss and remain that way. Gloss loss with these finishes is due to superficial wear and tear. When burnishing, spray buffing and/or using a finish restorer, surface imperfections are repaired to restore gloss - there is no real "polishing", as there is with burnishable finishes.



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* Spartan Chemical Product Selections for Infrequent Maintenance Schedules:

- o Millennia Bright Dura Gloss Laminate
- o Sheen 17
- o White Sun
- o Sunny-Side
- o iShine
- o On an' On
- o Green Solutions Floor Seal & Finish
- o Terra Glaze

7.1.6 Existing Floor Sealer/Finish Removal: To remove existing floor finishes/sealers, first the flooring must be properly cleaned by first sweeping or vacuuming to remove dirt and other particulates. Strip with either Spartan Chemical's Rinse Free Stripper or Green Solutions Floor Finish Remover utilizing a single disc 175 RPM maximum scrubbing machine with a soft-bristled nylon brush (required for textured, slate and raised profiles) or a 3M 4100 White Super Polish Pad (required for smooth finish profiles). Ensure the brush or pad does not scratch or damage the flooring. Rinse with clean, cool water and remove rinse water with wet/dry vacuum and allow floor to dry completely. Refer to Section 7.1.5 regarding reapplying the recommended Spartan Chemical's floor sealer and finish. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. Remove solution with a wet/dry vacuum. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure. Caution: Applying sealers or finishes will darken the floorings original color. When applying sealers or finishes always check first for compatibility, bonding and color darkening of the flooring by testing on a scrap piece of flooring to ensure the desired results and appearance is achieved. Caution: When floor sealers and finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Roppe Corporation will not be held liable for the slip resistance effects of their flooring if it is coated with a floor sealer or finish

7.1.7 Routine Maintenance for Optional Sealer/Finish Applications: Insufficient cleaning will reduce the wear life and the appearance of the flooring or optional sealers/finishes. The amount of maintenance required is directly related to the amount and type of traffic and type of particulates deposited on the floor. There are several alternative maintenance systems available from Spartan Chemical (800/537-8990). The flooring must be properly cleaned by first sweeping or vacuuming to remove dirt and other particulates from both smooth and profiled floors. Dust mop smooth profile floors with Spartan's Dust Mop/Dust Cloth Treatment. Flooring can also be damp mopped with Spartan's Damp Mop Detergent Concentrate or Spartan DMQ Neutral Disinfectant Cleaner. If an environmentally preferable product is desired, damp mop with



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Spartan Green Solutions All Purpose Cleaner. An auto-scrubber with a scrubbing brush (required for textured, slate and raised profiles) or 3M White Super Polish Pad (required for smooth finish profiles) may also be used for cleaning. Caution: Ensure the scrubbing brush or pad does not scratch or damage the flooring. Caution: When wet, flooring will become slippery; therefore, use the appropriate warning signs on the floor to eliminate foot or other traffic. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure. Caution: When floor sealers and finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Roppe Corporation will not be held liable for the slip resistance effects of their flooring if it is coated with a floor sealer or finish.

7.1.8 Maintenance Warnings and Cautions (Initial Maintenance, Optional Floor Sealer/Finish, Dry Buffing, Routing Maintenance and Floor Stripping): Caution: Applying sealers or finishes may darken the floorings original color or finish. When applying sealers or finishes always check first for compatibility, bonding and color darkening of the flooring by testing on a scrap piece of flooring to ensure the desired results and appearance is achieved. The floor care product manufacturer will assist you in determining the best maintenance program. Caution: When floor sealers and finishes are used, the floor surface will take on the slip resistance characteristics of that particular coating. Roppe Corporation will not be held liable for the slip resistance effects of their flooring if it is coated with a floor sealer or finish. Caution: When wet, the flooring will become slippery; therefore, use the appropriate warning signs on the flooring to eliminate foot or other traffic. Caution: Contact Spartan Chemical before applying products to verify recommendations for stripping flooring. Some strippers may have an adverse effect on the flooring. Always test first to ensure the flooring is not affected and the desired results can be achieved prior to applying strippers of any kind. DO NOT use highly alkaline, highly acidic, or solvent-based cleaners of any kind. Caution: Some germicides, disinfectants, cleaning agents, floor maintenance products, and pesticides may stain or damage the surface of floor; therefore, test the products to ensure they will not stain or damage the tile. Spills of any type must be removed immediately to help prevent staining or permanent damage. DO NOT use sweeping or cleaning agents containing oil or solvents. DO NOT use treated mops and thoroughly clean new mops before use. DO NOT use kerosene, gasoline, naphtha, or other solvents on flooring. DO NOT use varnish, shellac, paste wax, paint, or other substances that could discolor or damage the flooring. DO NOT allow the solution to dry or work its way beneath the flooring resulting in an adhesive failure.

8. Availability and Cost

8.1 Products are available through Roppe distributors. Contact Roppe Customer Service at 1.800.537.9527 or visit www.roppe.com for a distributor near you.

8.2 Samples may be obtained by may be obtained by calling Roppe Customer Service at 1.800.537.9527, or by visiting www.roppe.com



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9. Technical Assistance

Technical service information and assistance may be obtained by calling Roppe Customer Service at 1.800.537.9527, or by visiting www.roppe.com.

10. Limited Warranty

Roppe Corporation manufactures and markets its floor products under the trade name Roppe's Wood Naturals Solid Vinyl Tile is warranted for a period of one (1) year from date of installation to be free of defects in material and workmanship. Wood Naturals Solid Vinyl Tile has a ten (10) year Limited Wear Warranty if installed, maintained, and used strictly in accordance with Roppe's written instructions and installed with the recommended Roppe Adhesives. Roppe will not warranty Wood Naturals Solid Vinyl Tile products against fading or discoloration when exposed to direct sunlight or indirect sunlight. This Limited Warranty only applies to Wood Naturals Solid Vinyl Tile, which has been installed, maintained, and used strictly in accordance with Roppe's written instructions and is valid only under normal wear and traffic conditions in a use for which it was designed. Instructions may be obtained from a Roppe distributor or by writing Roppe, Attention: Internal Sales Manger, P.O. Box 1158, Fostoria, OH 44830. Notice of any defect must be made in writing to Roppe within thirty (30) days after buyer learns of the defect. No merchandise is to be returned prior to Roppe's inspection and written approval. Installation of material installed with obvious visual defects is not warranted. Buyer's sole and exclusive remedy for breach of this Limited Warranty shall be a pro rata credit, based on the period remaining in this Limited Warranty, toward the purchase of new Wood Naturals Solid Vinyl Tile, or in the event Wood Naturals Solid Vinyl Tile is not available, other Roppe tile. Replacement credit shall be equal to the proportion of Limited Warranty time remaining multiplied by the current price of Wood Naturals Solid Vinyl Tile or the last price if Wood Naturals Solid Vinyl Tile is not available. In no event shall Roppe be liable for incidental or consequential damages, even if some other provision of this Limited Warranty is unenforceable. Buyer waives all other claims, and remedies against Roppe, whether statutory, based in common law or in equity, and including, but not limited to, direct, indirect, special, incidental, and consequential damages. In order to use this Limited Warranty, Buyer must present this Limited Warranty and proof of time of purchase to Buyer's Roppe representative. Roppe shall have no liability whatsoever to Buyer in the event the goods become defective if such defect is caused in whole or part by cuts, tears, vandalism, fire, willful destruction, improper installation, installed with obvious defects, damaged from high heels, spike footwear, or improper maintenance, accident or act of God. Products installed as "seconds", "mill runs", "non-conforming", not being of first quality, are sold 'as is' and Roppe makes no warranties whatsoever, expressed or implied, with respect thereto, including warranties of merchantability or fitness for a particular use. This Limited Warranty is valid only if Wood Naturals Solid Vinyl Tile is installed pursuant to the Limited Warranty, using Roppe's recommended adhesives. These warranties are expressly in lieu of any other warranties expressed or implied, including, but not limited to any implied warranty of merchantability or fitness for a particular purpose. By retaining Roppe's merchandise for more than five (5) days after receipt of such merchandise, Buyer agrees that it accepts the terms of this Limited Warranty and that there are no warranties



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or rights beyond those contained herein. Wood Naturals Solid Vinyl Tile is not designed for use in or near commercial kitchens. Read the Wood Naturals Solid Vinyl Tile Product Data information concerning Product Limitations, Installation, and Maintenance available from a Roppe Distributor or Roppe Customer Service Representative.

* Limited Wear Warranty Terms (Products Type: Wood Naturals Solid Vinyl Tile)

If excessive wear is suspected, the original purchaser must notify Roppe Corporation in writing and permit an inspection of the flooring. If Roppe Corporation determines excessive wear, and the flooring has been properly installed and maintained, Roppe Corporation will replace the flooring based on the following terms:

A. Terms

- a. Within One-Year: If excessive wear is determined by Roppe within one (1) year of installation, Roppe will furnish new material of the same or similar style and color sufficient to repair or replace the defective material. Roppe will also pay reasonable labor cost once submitted in writing and approved.
- b. Within Two-Years: If excessive wear is determined by Roppe within two (2) years of installation, Roppe will furnish new material of the same or similar style and color sufficient to repair or replace the defective material. Roppe will also pay fifty-percent (50%) of reasonable labor cost once submitted in writing and approved.
- c. After Two-Years & Within Ten-Years: If excessive wear is determined by Roppe after two (2) years and within ten (10) years of installation, Roppe will furnish new material of the same or similar style and color sufficient to repair or replace the defective material. Roppe will not pay labor cost for material installed after two (2) years and within ten (10) years of installation.

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