

SUBFLOOR LEVELING PRODUCTS

1. Product Identification

Roppe's Subfloor Leveling Products are the ideal way to solve your transitioning subfloor problems. Roppe Subfloor Leveling Products can be installed over a variety of subfloors to meet almost any flooring need.

2. Manufacturer

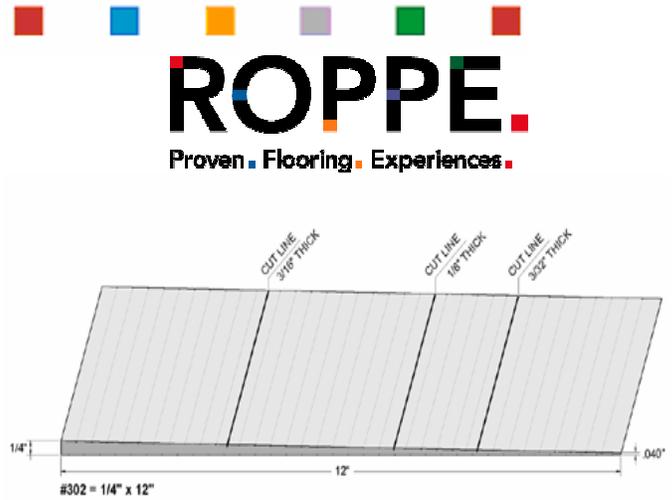
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3. Product Description

3.1 Product Basics

PRODUCT DESCRIPTION

Roppe's solid, homogeneous, thermoplastic rubber, Subfloor Leveler is made from first quality recycled materials for indoor use in commercial and residential applications. It is extruded to provide a smooth transition between uneven subfloors. Roppe Subfloor Leveling Products are flexible, making installations fast and economical by cutting out the hassle of time consuming and labor intensive patching or leveling compounds. Roppe Subfloor Leveling Products taper to provide a smooth transition between uneven



subfloors that can immediately accept new flooring without the interruption of foot traffic. Roppe Subfloor Leveling Products are ideal for all high-traffic applications.

COMPOSITION & MATERIALS

Roppe Subfloor Leveling Products are extruded from a blended compound of virgin and recycled thermoplastic rubber (TPR).

CHARACTERISTICS

Roppe Subfloor Leveling Products are pre-scored at the most commonly needed transition depths for ease of on-site trimming.

GAUGE

1/4" (6.35mm), 3/8" (9.52mm), 1/2" (12.7mm)

WIDTH

12" (30.48cm); 32' (9.75m) per carton, 18" (45.72 cm); 16' (4.87m) per carton

LENGTH

48" (1.219m)

AVAILABLE COLORS

Available in 1 color: 100 Black

3.2 Features & Benefits

- Can be installed over concrete, wood, and steel subfloors.
- Easy, time saving installation. No waiting for compounds to cure.
- Durable, thermoplastic rubber compound material
- Available in two widths and three thicknesses.

- Pre-scored at the most commonly needed transition depths for ease of on-site trimming.
- Installs easily with Roppe 375 adhesive.
- Environmentally friendly – made from recycled material.

4. Technical & Specification Data

4.1 ASTM E 648 (NFPA 253), Critical Radiant Flux: Class 1, > 1.0 W/cm²

4.2 ASTM E 662 (NFPA 258), Specific Optical Density of Smoke Generated by Solid Materials: Passes

4.3 ASTM E 84 (NFPA 255), Surface Building Characteristics of Building Materials: Class C

4.4 NFPA 101 Life Safety Code; Trim and Incidental Finish: Interior wall and ceiling finish not in excess of 10 percent of the aggregate wall and ceiling areas of any room or space shall be permitted to be Class C materials in occupancies where interior wall and ceiling finish of Class A or Class B is required.

4.5 ASTM F 925, Resistance to Chemicals: Passes

4.6 ASTM D 570, Water Absorption of Plastics: < 0.15%

4.7 ASTM F 970; Static Load Limit (modified) 1000 psi

5. Product Limitations

Roppe Subfloor Leveling Products must be installed using the ROP375 Adhesive. The ROP375 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 moisture or other liquids, in areas where the substrate or flooring is not maintained within the specified temperature range, and on metal and some other non-porous substrates. The product must be installed in accordance with recommendations in order for the

product warranty to be in effect. Roppe Subfloor Leveling Products are not to be used in commercial kitchens or in areas exposed to animal fats, greases, oils, solvents, strong detergents, or where there is excessive moisture. Roppe's Subfloor Leveling Products must not be used in areas that may be subjected to sharp spikes, cleats, sharp wheels, or other objects that could damage the finish flooring. DO NOT drag or move objects across the finish flooring or drop objects onto the finish flooring that may cause damage to the finish flooring. Use appropriate floor 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. Roppe Subfloor Leveling Products are for indoor use only with temperatures maintained from 55° F to 95° F. 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 Roppe Subfloor Leveling Products. All materials are to be delivered to the installation location in its original packaging with labels intact. Products should be kept in a dry area protected from the weather on a smooth, flat, dry surface with temperatures maintained between 65° F and 85° F. Remove all plastic wrapping and strapping from the pallets in the installation area at least 48 hours prior to installation. The

installation area, Roppe Subfloor Leveling Products, and adhesive are to be maintained between 65° F and 85° F for at least 48 hours before installation, during installation, and 48 hours after the installation. Maintain room temperatures between 55° F and 95° F thereafter. Conduct the proper moisture vapor emission and pH testing on the substrate. Proceed with the installation only when the conditions are proper and correct. A bond test using the Roppe ROP375 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 Roppe Subfloor Leveling Products from the substrate with adhesive bonding to the Roppe Subfloor Leveling Products and the substrate. Close the area to traffic during flooring installation. Install tiles and accessories after other finishing operations, including painting, have been completed. If the back of the tile becomes soiled prior to installation, clean with a soft cloth dampened with a mild soap and water solution, rinse, let dry. **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 subfloors/substrates must be clean, smooth, permanently dry, level, and structurally sound. The substrate must be free of moisture, dust, sealers, paint, 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, or any other extraneous coatings, films, or materials that could prevent a successful bond. DO NOT use sweeping compounds, solvents, citrus adhesive removers, or acid etching to clean the substrate. DO NOT install Roppe Subfloor Leveling Products 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. 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.

6.2.2 Concrete substrates MUST be tested in accordance with ASTM F 1869 to quantitatively determine the amount of moisture vapor emission at least one week prior to the installation. Conduct a minimum of one test for every 1000 square feet of flooring. The moisture emission shall not exceed 5lbs./1000 sq. ft. per 24 hours. If the substrate does not meet the moisture emission requirement, Roppe Subfloor Leveling Products shall not be installed until the problem has been corrected. DO NOT install the 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 10 is an indication of a potential problem and the concrete must be neutralized using a 10% muriatic acid and water solution (10 parts water to 1 part muriatic acid). Apply the solution on the substrate with a mop, allow the solution to thoroughly dry, then rinse the substrate with a mop using clean water, let thoroughly dry, and retest. Continue to neutralize until the pH level is acceptable. Follow the recommended safety practices when using muriatic acid. 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 peaking, or curling. Ensure concrete is of adequate strength, which generally should be 140 pounds per cubic foot or more. Joints such as expansion joints, contraction joints, isolation joints, 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 surface cracks, grooves, depressions, saw cuts, control joints or other non-moving joints, and other irregularities shall be filled and smoothed with a high quality grade portland cement-based, water-resistant, 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 can 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" (4.76mm) in 10 ft. (3.05m), 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 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 2.2.1.

6.2.3 Wood subfloors should be of double layer construction with a minimum thickness of 1"(25.4mm). Crawl spaces underneath wood subfloors shall be in compliance with local building code ventilation

practices and have clearance of at least 18"(457.2mm) of cross-ventilated space between the ground level and joists. Wood joists should be spaced on not more than 16"(406.4mm) 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"(203.2mm). APA, the Engineered Wood Association, Underlayment-Grade plywood, a minimum of 3/8"(9.52mm) 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, wafer board, particleboard, chipboard, flake board, 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. 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. Refer to 2.2.1.

6.2.4 Terrazzo and ceramic floors to be used as subfloor substrates are to follow the procedures recommended for concrete in 2.2.2. Ensure all glazed, smooth, and/or shiny surfaces are properly sanded. Fill all grout lines and other irregularities with a 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. Roppe will not warranty the product if there is a bond failure caused by problems relating to the old flooring. Refer to 2.2.1.

6.2.5 Metal floors to be used as subfloor substrates should be thoroughly cleaned of any residue or rust and properly sanded to provide a smooth, level, clean substrate to receive the resilient flooring. The metal subfloor shall be structurally sound. Deflection of the metal floor can cause a bond failure between the adhesive and the metal substrate. Roppe will not warranty the product if there is a bond failure caused by problems related to the old flooring. On an extremely smooth, metal substrate, a longer "tack up" may be required in order to prevent the adhesive from oozing between the seams. Refer to 2.2.1.

6.3 Adhesive Information

6.3.1 Adhesive General Information

ROP375 Adhesive is a solvent free, high strength, acrylic adhesive for indoor installations of rubber or vinyl products over porous and some non-porous substrates on grade, below grade, or above grade. This adhesive contains antimicrobial protection that protects the dried/applied adhesive from mold, mildew and bacteria that cause odors and product degradation. Use of this adhesive is limited to areas where the temperature is maintained between 55° F and 95° F, and in areas that will not be subjected to moisture or other liquids. ROP375 adhesive is available in 1-gallon and 4-gallon pails. Shelf life is one year if stored at 70° F in an unopened container. The adhesive is freeze thaw stable to 5 cycles at 0° F; however, it is recommended to protect all adhesive products from freezing. If frozen, do not stir until material has completely thawed. Label information is in English and Spanish. Read all MSDS information and follow the proper safety procedures. VOC grams per liter of coating: 0 grams.

1. Use proper adhesive – It is important the proper adhesive is used for all installation of Roppe's Subfloor Leveling Products. It is recommended that ROP375 adhesive be used for most installation situations.
2. Proper mixing and following the recommended shelf life of adhesives by the manufacturer is extremely important.
3. Roppe recommends a 1/16" x 1/16" x 1/16" square-notched trowel to apply ROP375 adhesive.
4. Coverage should be 150 sq. ft. per gallon of ROP375 adhesive.
5. Dried adhesive can be removed using a soft, clean cloth dampened with mineral spirits. It is always best

to wipe up any adhesive that may seep through cracks or seams during installation while it is still wet.

6.3.2 Installation using ROP375 Adhesive

For **porous** substrates, allow the adhesive to "flash off" for approximately 10 minutes before installing Roppe Subfloor Leveling Products to the substrate. **NOTE:** It is recommended that the leveling product be install with the "cut lines" face down and against the substrate that is being adhered to. For **non-porous** substrates, allow the adhesive to become dry to the touch, usually 45 to 50 minutes dependant upon climate conditions, so that there is very little or no transfer of adhesive to the finger before installing the Subfloor Leveling Products to the substrate.

Caution: Open time and curing characteristics will vary upon the type of substrate, substrate temperature, ambient temperature, humidity, and proper conditioning of the adhesive. Allowing the adhesive to remain open too long will result in a bond failure. There should be at least 90% coverage of adhesive on the back of the Subfloor Leveling Product. Observe the adhesive to ensure that the adhesive has not surpassed the open time and has not began to cure. Roll and cross roll each section of Subfloor Leveling Product laid with a 100-pound 3-section roller within 15 minutes after the Subfloor Leveling Product section has been installed. 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 inspection during the rolling process to ensure there has been no shifting of the Roppe Subfloor Leveling Product.

The desired finish flooring can be installed after the Roppe Subfloor Leveling Product is correctly installed to the substrate. When installing the finish flooring onto the Subfloor Leveling Product use the "non-porous" installation technique. Spread the adhesive using a 1/16"x1/16"x1/16" flat V notched trowel. Allow the adhesive to become dry to the touch so that there is very little or no transfer of adhesive to the finger, usually 45 to 50 minutes dependant upon climate conditions, before installing the finish flooring to the Roppe Subfloor Leveling Product.

Caution: If the finish flooring is vinyl composition tile (VCT) or a similar material, it is recommended that all irregularities between Subfloor Leveling Products and the substrate be filled using a high quality grade Portland cement-based, water resistant, non-staining, mildew resistant, alkali resistant underlayment having a minimum compressive strength of 3500 psi after 28 days. There is to be no foot traffic on the floor for at least 48 hours and no wheeled conveyances for at least 3 days. Protect flooring against mars, marks, indentations and other damage.

7. Maintenance

Because this product is installed under the finish floor, there is no maintenance needed.

8. Warranty

Limited Warranty

For a period of one (1) year from date of shipment, Roppe Corporation makes the following warranty on all first-quality products: The merchandise will conform to the contract description; it will be of fair and average quality within the description; it will conform to a sale by

sample with only such reasonable variation as is acceptable in the trade; it is fit for the ordinary purposes for which the product is used; and it will be adequately packaged to conform to the label. Any defective material will be replaced at no charge if the defect is found prior to installation. If a defect is found after installation, all of the above warranties shall be void unless the proper Roppe brand of adhesive has been used on the installation, and the material has been installed and maintained in accordance with Roppe's instructions.

ROPPE DOES NOT WARRANT: The exact matching of shade, color, or mottling; or any expressed or implied promise made by any salesman or representative.

Purchaser must inform Roppe Corporation, P.O. Box 1158, 1602 N. Union Street, Fostoria, 44830, U.S.A.; phone number 419-435-8546, of any claimed defect. Any defective material that has been installed using the proper Roppe brand of adhesive will be replaced free of charge, subject to the following conditions: Roppe reserves the right to inspect the manner and quality of installation of its product claimed defective. Roppe assumes no liability for labor costs in the installation of its products claimed defective. The purchaser must notify Roppe Corporation at its corporate address listed below immediately upon learning of the defect, subject to the following notification procedure: The consumer must notify Roppe Corporation, P.O. Box 1158, 1602 N. Union Street, Fostoria, Ohio 44830, U.S.A.; phone number 419-435-8546, within ninety (90) days after claimed defect is discovered. Notification of Roppe Corporation shall be ordinary U.S. mail, telephone, or any other reasonable means of communication.

EXCLUDED FROM WARRANTY

1. Sales of "Seconds," "Off Goods," or other irregular (non-first-quality) flooring material. With respect to "Seconds" or "Off Goods," such are sold "as is," seller makes no warranties whatsoever expressed or implied, with respect thereto, including warranties of merchantability or fitness for a particular purpose.
2. Problems caused by moisture, hydrostatic pressure, or alkali in the subfloor.
3. Problems caused by uses and installation contrary to Roppe recommendations.
4. Labor on material installed with obvious defects.

9. Product Availability & Pricing Information

Acquire Roppe product availability and pricing through your local Roppe distributor. For the location of your distributor, please contact Roppe Customer Service 800-537-9527 or visit the Roppe Web site – www.roppe.com and use the "Locate a Distributor" feature.

10. Technical & Sampling Assistance

Local Roppe distributors can address most specification, installation, and application questions concerning Roppe Subfloor Leveling Products. In addition, Roppe regional sales representatives are available for phone or on-site consultation as necessary.

For further information, contact Customer Service at 419-435-8546 or 800-537-9527. Internet:

www.roppe.com

Or E-mail: sales@roppe.com.

Roppe toll-free sample hotline: 877-726-7534