



ROP319 Stair Tread Adhesive

Description: ROP319 Stair Tread Adhesive is a solvent free, non-flammable, high strength, acrylic adhesive for the indoor installations of Roppe Rubber and Vinyl Stair Treads, Rubber and Vinyl Risers and Rubber and Vinyl Stringers. ROP 319 Stair Tread Adhesive may be used over properly prepared dry and porous concrete and wood subfloors (excluding metal or flexing substrates, non-porous substrates, terrazzo, ceramic tile, or below grade). ROP319 must be used in combination with Roppe ECC Epoxy Caulking Compound (Nose Filler). **Do not** use ROP319 in areas subjected to lateral shear stresses or rolling loads. **Sizes:** Adhesive is available in 1-gallon and 4-gallon pails **Color:** Light Beige. **Shelf Life:** Shelf life is one year stored at 70°F (21°C) in an unopened container stored at indoor room temperature.

Installation Temperature Ranges: The installation area, substrate, flooring material, associated material 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. Room temperature must be maintained between 65° F (19°C) and 85°F (30°C) thereafter to prevent adhesive failure and to prevent distortion or destruction of flooring material. In addition, the subfloors temperature range must also be between 65°F (19°C) and 85°F (30°C) prior to installation, during installation and maintained thereafter.

Freeze Thaw Stability: The adhesive is freeze/thaw stable to 5 cycles at 0°F (-18°C); however, it is recommended to protect all adhesive products from freezing. If frozen, **DO NOT** stir until material has completely thawed.

Clean-Up: Remove wet adhesive with a soft, clean cloth dampened with warm soapy water. Dried adhesive can be removed using a clean white cloth and denatured alcohol.

Use: Interior Installation of Roppe Rubber and Vinyl Stair Treads, Rubber and Vinyl Risers and Rubber and Vinyl Stringers only, depending on substrate and installation type.

Calculated VOC's: Roppe 319 Stair Tread Adhesive Calculated VOC's according to California Rule #1168: 21grams per liter of coating.

ROP319 Qualifications: Meets CHPS, SCAQMD, CRI Green Label Plus and LEED requirements.

Recommended Substrates: On or above grade concrete and wood underlayment. See Individual Product 10-Part Specification Sheet for complete details, cautions and warnings.

Limitations: **Do not** use for Butting Stair Tread installations. For Rubber Butting Stair Treads, use either ROP535U or ROP435 depending on substrate and installation type. For Vinyl Butting Stair Treads, use ROP535U. **Do not** use ROP319 for installations subjected to rolling loads and lateral shear. **Do not** use over metal or flexing substrates, non-porous substrates, terrazzo, ceramic tile or below grade. **Do not** use outdoors. When installing Rubber & Vinyl Stair Treads, ROP319 must be used in combination with ROPECC (nose filler). **Do not** apply ROPECC directly over the adhesive/tape being utilized to install the stair treads. There is to be no foot traffic until 24 hours after installation. There is to be no maintenance performed for at least 72 hours after installation. **Do not** use to install vinyl stair nosings and vinyl accessories. **Do not** use over painted or primed surfaces. **Do not** use over existing floor-covering.

Stair Tread, Stringer & Riser Preparation: Before applying ROP319 or ROPECC Epoxy Caulking Compound, the stair tread, riser and stringer's entire backing must first be thoroughly cleaned with Acetone (always follow manufacturer's recommendations, cautions and warnings etc.) and a clean white cloth to remove the factory mold release agent applied during the manufacturing process, along with any other contaminants which could interfere with the bonding process. Once cleaned with Acetone, allow backing to dry completely before applying

recommended Roppe Adhesive or ROPECC Epoxy Caulking Compound and then test to ensure a successful bond can be achieved.

Subfloor/Substrate Inspection and Preparation: 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, primers, paint, oxidation, 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, citrus adhesive removers, or acid etching to clean the substrate. **DO NOT** install stair treads or 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 stair treads and 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".

Concrete Substrates: 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 (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 tests for the first 1,000 sq. ft. and one additional test for each 1,000 sq. ft. or fraction thereof per grade level (on, below or above grade). The Vapor Emission Rate shall not exceed 4.0 lbs and Relative Humidity Test shall not exceed 70% when using ROP319. 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.

Wood Subfloors: Wood subfloors to be used as subfloors/substrates are to follow the procedures recommended for Subfloor/Substrate Inspection and Preparation (see above). 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.

Mixing: No mixing is required.

Application: Single surface and porous/rough substrate application coverage using a 3/32" x 3/32" x 3/32" "V"-notch trowel is approximately 110-135 square feet per US gallon on a smooth substrate. For two-surface (substrate and stair tread) application coverage using the recommended 1/32" x 1/16" x 1/32" U-notch trowel is approximately 90-120 sq/ft per gallon. At least 90% transfer to the products backing is required. **Caution:** Spreading adhesive on a large number of steps and treads could possibly allow the adhesives to cure or setup before the treads are installed which would result in a bond failure. For porous substrates, allow the adhesive to "flash off" for approximately 10 minutes before installing the tread, however do not allow adhesive to dry or skin-over. On smooth substrates, allow the adhesive to flash-off longer, but do not allow adhesive to dry or skin-over. **Cautions:** When installing flooring, either use a kneeling board, or for best results, work off the flooring to avoid shifting, adhesive displacement & adhesive telegraphing. Remove wet adhesive immediately. **Do not** allow adhesive to dry on the flooring, tools or surrounding areas since it may be impossible to remove. **Do not** allow adhesive to dry or skin-over which will result in either none or inadequate adhesive transfer resulting in an installation failure. Roll and cross roll each tread against the step substrate with a J-type roller within 15 minutes after the tread has been installed. Re-Roll within 30 minutes after installation. **Caution: DO NOT** roll the tread nose. Rolling the tread nose will squeeze out the epoxy nose caulking. The rolling time may need to be adjusted to climatic conditions. **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.

* **Notice:** This document is intended as a general guide only. Therefore, refer to Individual Product 10-Part Specification Sheet for complete details, cautions and warnings.

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