

Outdoor Rubber Stair Tread

INSTALLATION

This document is intended for professional use to provide minimum requirements for substrate preparation, adhesive application, and special installation requirements for a successful installation of these products, each unique application may require additional or further steps to ensure complete satisfaction. We rely on the expertise and professionals that are installing the products to adjust based on site conditions. Refer to the product website to confirm that you have the most current revision of this document as the requirements contained within are essential to maintaining the full system warranty for the product installed. Documentation available at time of installation will be referenced regarding warranty.

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RECOMMENDED ADHESIVES

The adhesives below are the recommended adhesives for installing this product. The first one listed is the primary installation method recommended for applications when the conditions are met as listed. Select the appropriate application method based on the conditions of the substrate. Refer to the adhesive technical data sheet for additional information and when to utilize a different adhesive.

Required for Installation	EN-610 Epoxy Nose Filler is required for the installation of the Outdoor Rubber Stair Tread.
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Adhesive	Substrate	Installation Method	Recommended Trowel
U-705	Absorptive	Wet-Set	1/16" x 1/16" x 1/16" V Notch
U-705	Non-Absorptive	Wet-Set	1/16" x 1/32" x 1/32" U Notch
EW-710	Absorptive	Wet-Set	1/16" x 1/16" x 1/16" V Notch
EW-710	Non-Absorptive	Wet-Set	1/16" x 1/32" x 1/32" U Notch

We do provide an adhesive bond warranty with our products with these listed adhesives. We do not cover or provide warranty for bond for any adhesives other than the listed recommended adhesives. If another adhesive is utilized, the stated warranty for the product remains in effect but the bond warranty for the adhesive and the stated length of the bond warranty for the adhesive will come from the adhesive manufacturer or distributing agent. However, the use of the recommended adhesives within the installation instructions of the individual products are essential to the specific product performance. We cannot guarantee the same level of performance from an adhesive that is not specifically listed within the technical documents for the specific products, regardless of what the adhesive manufacturer claims.

STORAGE, HANDLING, INSTALLATION, SERVICE, & ACCLIMATION ENVIRONMENT

All products must be stored in an indoor, climate-controlled (60° - 85° F) space and protected from the elements prior to installation. All products must be stored on a dry, flat, level surface. Carefully stacked, aligned neatly and not on edge. Do not stack pallets and protect products from damage.

All products must be installed when conditions are within 40° - 95° F temperature range. Best conditions for installation are within the 60° - 85° F temperature range for the adhesive working properties. Colder weather slows the adhesives' curing process.

While we do our best to provide quality products and workmanship in our manufacturing facilities, quality installation is the responsibility of the installer. Inspect all material for proper type, color, and matching lot numbers if appropriate. We ask that we are notified of any inaccuracies or defects prior to installation as **we do not pay labor for or material costs on installed materials with visual defects.**

Users are advised to confirm suitability of these products by their own tests and ensure that all adhesives intended for installation meet the requirements of the end user.

If there are concerns regarding this information or the service temperature, substrate temperature or installation environment will not meet these requirements, please contact Technical Services for recommendations prior to installation at solutions@rhctechical.com, we will be happy to discuss and provide direction or confirmation of the project at that time.

SUBSTRATE PREPARATION

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Substrates must be clean, smooth, permanently dry, flat, and structurally sound. Substrates must be free of visible water or moisture, dust, paint, sweeping compounds, post placement curing compounds, residual adhesives and chemical adhesive removers, concrete hardeners or densifiers, solvents, wax, oil, grease, asphalt, visible alkaline salts or excessive efflorescence, mold, mildew and any other extraneous coating, film, material, or foreign matter. If not, consideration should be taken regarding the effects of these conditions and how they can affect the installation.

All substrates must have all existing adhesives, materials, contaminants, or bond-breakers mechanically removed via scraping, sanding, grinding, or buffing with a 25 grit DiamaBrush Prep Plus tool prior to adhesive installation. In extreme situations, shot blasting may be required. Mechanical preparation must expose at least 90% of the original substrate. Following cleaning and removal, all substrates must be vacuumed with a HEPA approved vacuum and flat vacuum attachment to remove all surface dust. Sweeping without vacuuming will not be acceptable.

Do not use solvent/citrus based or other chemical adhesive removers or oil-based cleaning compounds before installation.

CONCRETE SUBSTRATES

All concrete substrates, whether on-grade and/or below grade should be solid with no major cracks or voids.

WOOD SUBSTRATES

Wood substrates must meet local and national building codes and be solid and free of any movement.

OTHER SUBSTRATES

With **Terrazzo or Ceramic existing flooring**, ensure existing flooring is a single layer of material and that all materials are clean, dry, sound, solid, well adhered, and free of factory and/or site-applied finishes, waxes and/or contaminants. Remove and repair all loose tiles and utilize a suitable primer and cementitious patch to fill grout lines and other depressions.

Metal substrates must be mechanically sanded/ground/abraded and cleaned of any residue, oil, rust and/or oxidation. The substrate must be smooth, flat and sound before installation. When installing in areas that may be subject to topical water or moisture and/or high humidity, an anti-corrosive coating must be applied to protect metal substrate. Be sure to follow installation procedures and trowel sizes for non-porous/non-absorptive substrates.

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By covering a substrate, underlayment, or existing surface, you have indicated acceptance of the substrate and installation environment.

Before installation, inspect all treads before installing or during installation to verify that there are no visible defects, damages, or excessive shading variations. If there are concerns regarding shade or color variation, do not install material, and consult a sales representative and manufacturer's technical staff.

PRIOR TO INSTALLATION

Since the installation of these treads are outdoor and exposed to varying weather conditions, there are additional requirements to prepare the treads for installation with the recommended adhesives. The use of the U-705 Urethane Adhesive or the EW-710 Urethane Enhanced Two-Part Epoxy Adhesive requires **the back side of the tread be sanded to achieve bond** prior to wiping with denatured alcohol.

Sand the back of the stair treads with 60 Grit Sandpaper or lower to achieve maximum bonding. This should be done with a **mechanical sander** and not by hand. This should also include the backside of the nose as it is required to fully bond the **ENTIRE** tread surface to the substrate. After sanding, clean the back of the treads with **Denatured Alcohol** or equivalent to remove the sanding residue from the backs of the tread. If there are concerns or questions, please contact Technical Services.

EN-610 EPOXY NOSE FILLER

EN-610 Epoxy Nose Filler is required in all outdoor rubber tread applications in the underside radius of the stair tread.

When using the first mixing nozzle with the EN-610, expel the first 5 - 6 inches coming from the mixer nozzle. When the cartridge is empty, transfer the nozzle to the next cartridge to continue application. This ensures the mixture is appropriate and cures properly. Dispose of the nozzle at the end of the day and use a fresh one starting the next.

- The recommended bead for this is 1/2" bead of material to be placed in the underside radius of the stair tread prior to placing it into the adhesive.
- If the tread substrate is worn more than this 1/2" bead will fill, correction of the nosing area may be required prior to installation.

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STAIR TREAD INSTALLATION

Outdoor rubber stair treads are not meant to cover end to end on the step. They are intended to be installed in the middle of the step.

- Square both ends of the tread while cutting them to the same length.
- Prepare the substrate, mark area in which adhesive will be applied.
- Apply the selected adhesive with the appropriate trowel.
- Apply the EN-610 Epoxy Nose Filler to the underside of the nosing.
- Place the stair tread into the wet adhesive and use a hand roller to ensure the tread is seated into the adhesive appropriately.
- If necessary, use a releasable tape or other method to hold the stair treads in place until the adhesive cures.
- Prevent traffic from the steps to prevent any movement of the stair treads after installation until the adhesive cures.
- Clean excessive adhesive or adhesive residue from the surface of the material per adhesive recommendations.

SUPPORT & ADDITIONAL RESOURCES

Technical Support Phone & Email	(844) 393 – 4044 / solutions@rhctechnical.com
Associated or Related Documentation	Excelsior EN-610 Epoxy Nose Filler Excelsior U-705 Urethane Adhesive Excelsior EW-710 Urethane Enhanced Two-Part Epoxy Adhesive

The contents contained within this Installation Sheet may be utilized or copied into another projected related document. While this original document will remain in effect at the time of product installation, this TDS shall not be supplemented or replaced by the resulting project documentation. Any alterations to the wording or requirements contained in or derived from this document shall void all related warranties. Before accepting this document, refer to the product website to confirm that you have the most current revision. These products are intended for installation by professionals. Prior to use the user must determine the suitability of our products for the intended use. The user alone assumes all risks and liability.