EN-610 Epoxy Nose Filler

TECHNICAL DATA

PRODUCT DESCRIPTION

Excelsior EN-610 Epoxy Nose Filler is a two-component wet-set epoxy caulking compound designed for use as nose filler for indoor installations of resilient stair treads and stair nosings as well as an adhesive for stair nosings and accessories. It is specifically formulated to prevent movement, flexing, indentation, separation and premature wear or damage to stair treads and nosing by providing support on substrates that are worn; it is a low odor, non-flammable, and solvent-free product.

Product Color & Appearance	Part A, Beige Thick Liquid Part B, Dark Grey Thick Paste
Product Packaging Options	13.5 oz. Dual Cartridge (Special Applicator Required)
Coverage Rate [1]	25 – 50 lin. ft. per Unit, based on selected bead size
Setting Characteristics @ Full Cure [2]	Hard-Set Nose Filler & Adhesive

MOISTURE REQUIREMENTS

Moisture Control Properties	Not a Moisture Inhibitor or Moisture Mitigation Product
ASTM F2170 – RH Limit	90%, *in situ*
ASTM F1869 – MVER Limit	6 lbs. / 1,000 sq. ft. / 24 hours
ASTM F710 – pH Limit	≥ 7 - ≤ 10

PRODUCT PERFORMANCE PROPERTIES

VOCs (California Rule # 1168 SCAQMD)	≤ 12.0 grams / Liter
ASTM D6004 – Adhesive Sheer Resistance	Excellent
ASTM D6862 – 90° Peel Resistance	Excellent
ASTM D7888 – Plasticizer Resistance	Excellent
ASTM D7149 – Freeze Thaw Stability	Excellent Up to 5 Cycles, Not falling below 0° F
ASTM F1337 – Shelf-Life [3]	2 Years from Manufacturing Date
Reading Manufacturing Date Code	B210201515293 Ignore the B, focus on the 210201 which is Year (21) Month (02) and Day (01), ignore the balance as it is for batching information for manufacturer On the carton it is located on lower left corner of the label under the UPC code On the cartridge it is located on a white sticker somewhere on the label
Service & Storage Temperature	60° - 85° F
Indoor / Outdoor Suitability	Indoor Use Only

APPLICATION & WORKING PROPERTIES

Material is applied with a special two-part caulking gun with a special mixing nozzle (provided) to mix the material as it is being expelled from the cartridge.

When using the first mixing nozzle, expel the first 5 – 6 inches and then move the nozzle to the next cartridge to continue application. Dispose of the nozzle at the end of the day and use a fresh one starting the next.

Also used as an adhesive on nosing installations, by applying a bead to the back of the nosing and spreading with a 1/8” sawtooth spreader prior to installation of the nosing.

Recommended Trowel Size [4]	As Nose Filler	As Adhesive
All Substrates	Mixing Nozzle @ 1/2" Bead	1/8” Saw Tooth Spreader

Flash / Open Time [5]	No Flash Time, Immediate Installation
Working Time [6] (Flooring Installed & Rolled)	60 Minutes

COVERAGE, CLEAN UP, WAIT TIMES

Coverage Per Unit	50 lin. ft. per Unit @ 1/4" Bead 25 lin. ft. per Unit @ 1/2” Bead (Utilized for Spreading)
Adhesive Clean Up	Do not allow adhesive to dry on the surface as it may permanently discolor the surface. Wet adhesive is recommended to be cleaned with warm soapy water or Denatured Alcohol. Mineral spirits and solvents should not be applied directly to flooring and used sparingly as it could damage the surface. Should be rinsed with neutral cleaner and clean water after using mineral spirits.
Allotted Timeframes for Post-Installation Activities	Light Foot Traffic ≥ Immediately when utilized with TP-620 Light Foot Traffic ≥ 24 Hours when utilized with other adhesives or as adhesive Heavy Foot Traffic ≥ 48 Hours Maintenance Activities ≥ 72 Hours

IS IT REQUIRED FOR STAIR TREAD INSTALLATIONS

The predominant step being used in construction today is the metal formed frame with a pan filled with concrete, having a nose radius of 1/2” maximum as spelled out in the ADA guidelines. When installing Rubber Stair Treads on these substrates, either new construction or remodel, they do not require the use of the EN-610 Epoxy Nose Filler. Fitting the tread properly to the step and creating a tight fit to the substrate will ensure proper installation and performance of the Stair Tread.

For installations that occur on other substrates (worn metal, wood, existing approved flooring types), the EN-610 Nose Filler may be required to ensure proper fit to the substrate. These substrates need to be verified for uneven wear and corrected appropriately using the best means available. One of these means is the EN-610 Epoxy Nose Filler. It is our recommendation to check for gaps between the radius in the nose of the tread and the substrate. If a gap greater than 1/4” is present, it is required to use the EN-610 Epoxy Nose Filler. If a gap of 1/2” or greater is present, the substrate should be prepared using other methods. Of course, with any Stair Tread installation it is acceptable to utilize the EN-610 Epoxy Nose Filler.

SITE REQUIREMENTS

- During acclimation, the site must be fully enclosed, weather tight, and material must be in the installation area with the HVAC system functional and operating at desired service temperatures for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.
- It is recommended to maintain an ambient relative humidity between 40% and 60% for a period of 48 hours prior to installation, during the installation and for the service life of the installation afterwards.

APPROVED SUBSTRATES

- Concrete above, on, or below grade; properly prepared to receive moisture sensitive resilient flooring that has been in place a minimum of 45 days.

- Properly prepared APA rated plywood underlayments.
- Properly prepared Portland cement-based patches & underlayments.
- Properly prepared & primed Gypsum cement-based underlayments meeting the requirements of ASTM F2419 – Standard Practice for Installation of Thick Poured Gypsum Concrete Underlayments and Preparation of the Surface to Receive Resilient Flooring.
- Properly prepared Steel & Aluminum.
- Radiant-heat systems that have been properly installed and operating at a surface temperature no higher than 85° F (29° C).
- Properly installed and prepared moisture mitigation systems.

SUBSTRATE REQUIREMENTS

- All substrates must be prepared according to the information contained within the product installation instructions.
- Concrete substrates, whether on-grade and/or below grade must have an intact and effective moisture vapor barrier which meets the current requirements of ASTM E1745.
- Substrates must be clean, smooth, permanently dry, flat, and structurally sound.
- Substrates must be free of visible water or moisture, dust, sealers, paint, sweeping compounds, curing compounds, residual adhesives, 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.

DISPOSAL INFORMATION

- Dispose in accordance with local, state, and federal regulations.
- Do not allow products to get into drains, watercourses, or landfills in a wet state. Hardened product residues are considered construction waste.
- Empty packaging is recyclable.

ATTRIBUTES, CERTIFICATIONS, & REGULATORY INFORMATION

- Manufactured in Olive Branch, Mississippi
- Contributes to LEED v4/4.1 Requirements
- Achieved FloorScore Certification
- Meets California Department of Public Health V1.2 (CA Section 01350) requirements
- Meets South Coast Air Quality Management District rule #1168 requirements
- Does Not Contain Recycled Materials
- Qualifies for American Made Products Acts and/or Requirements
- California Prop 65 Labeling
  - Part A – WARNING: Cancer and Reproductive Harm
  - Part B – To the best of our knowledge, this product does not contain any of the listed chemicals, which the state of California has found to cause cancer, birth defects or other reproductive harm.

SUPPORT & ADDITIONAL DOCUMENTATION

Product Support Phone & Email	(844) 393 – 4044 / solutions@rhctechnical.com
Technical Documentation	www.excelsiorproducts.net
Associated or Related Documentation	Excelsior Products Warranty FloorScore Certification SDS Sheet

[1] Coverage Rates are approximate and subject to the level of porosity as well as ambient conditions, angle of the trowel, age of the trowel, etc. Actual results may vary.

[2] Full cure is typically achieved within 30 days of application of adhesive and covering with approved resilient floor covering utilizing the appropriate methods for the conditions of the substrate in which adhesive is being applied.

[3] Shelf Life depends on proper storage within service & storage temperatures in unopened original containers.

[4] Trowel Notch Dimensions are standard Depth x Width x Space.

[5] Flash Time is the time allowed between the application of the adhesive and the placement of the flooring. This will vary depending on site conditions including temperature humidity, absorption rates, trowel wear, etc.; higher temps with higher humidity will be shorter than lower temps with lower humidity. Conditions listed are determined at 70° F (21° C) & 50% RH.

[6] Working Time is the time allowed between the adhesive being ready for placement of the flooring and when the adhesive should be completely covered with flooring and rolled. This will vary depending on site conditions including temperature humidity, absorption rates, trowel wear, etc.; higher temps with higher humidity will be shorter than lower temps with lower humidity. Conditions listed are determined at 70° F (21° C) & 50% RH.

The contents contained within this Technical Data Sheet (TDS) may be utilized or copied into another projected related document, but 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.**

See installation information and documents for full installation details regarding substrates, job site conditions, & acclimation procedures. The intent of this document is to provide technical and performance properties of the mentioned adhesive as well as define the intended method of installation for the products in which the adhesive is approved for use. Any installation guidelines are to be considered as a starting point at a minimum for a successful installation. We rely on the expertise and professionals that are installing the products to adjust based on site conditions. Anything that appears to be a link, is and leads to additional information if necessary or provides a means of contact in the event there are any additional questions. Prior to acceptance of 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, and the user alone assumes all risks and liability.