



USD-810 ESD Epoxy

ADHESIVE TECHNICAL DATA

Excelsior USD-810 ESD Epoxy Adhesive is a two component urethane enhanced wet-set conductive ESD epoxy adhesive used for the permanent installation of ESD rubber and vinyl flooring products over porous and non-porous substrates. When cured it is water resistant and has high shear strength and is the perfect choice for areas with topical moisture, heavy traffic and rolling loads both indoors and outdoors including areas with sunlight and not climate controlled; it is a low odor, non-flammable and solvent-free product

Product Type	Two-Component Wet-Set Urethane Enhanced ESD Adhesive for porous (absorptive) and non-porous (non-absorptive) surfaces
Characteristics	Part A, Black Thick Liquid Part B, Dark Gray Paste
Packaging	0.92 Gallon per Unit when Mixed Part A, Gallon Container Part B, Quart Container to empty into Part A for Mixing
Moisture Control Properties	Not a moisture inhibitor or mitigation product
ASTM F2170 - RH Limit	90%, <i>in situ</i>
ASTM F1869 - MVER Limit	6 lbs. / 1000 sq. ft. / 24 hours
ASTM F710 - pH Limit	≥ 7 - ≤ 10
SCAQMD Rule 1168	≤ 12.0 grams/liter VOC Content
ASTM D6004 - Adhesive Shear Resistance	Excellent
ASTM D6862 - 90° Peel Resistance	Excellent
ASTM D7888 - Plasticizer Resistance	Excellent
ASTM D7149 - Freeze Thaw Stability	Up to 5 Cycles, Down to 0° F
ASTM F1337 - Shelf Life	2 Years from Manufacturing Date

Reading the 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 the lower left corner of the label under the UPC code
On the container it is located on a white sticker on top of the pail

Service & Storage Temperature	60° - 85° F
--	-------------

*Shelf Life depends on proper storage within service & storage temperatures in unopened container
See installation document for full installation details regarding approved substrates, job site conditions and acclimation procedures.*

Application Method	Trowel Applied
Mixing Procedure	Empty contents of Part B container into Part A container, mix with a low speed (< 400 RPM) and an epoxy or jiffy mixing paddle for 3 minutes or until mixture is homogenous and consistent throughout. Immediately empty entire contents of mixed Epoxy onto substrate and apply using the appropriate trowel.



USD-810 ESD Epoxy

ADHESIVE TECHNICAL DATA

Resilient Flooring Trowel Sizes & Coverage

(Absorptive) Porous Substrates 1/16" x 1/16" x 1/16" V Notch, 135 sq. ft. per Gallon

(Non-Absorptive) Non-Porous Substrates 1/16" x 1/32" x 1/32" U Notch, 150 sq. ft. per Gallon

Flash / Open Time

(Absorptive) Porous Substrates Immediate Installation

(Non-Absorptive) Non-Porous Substrates 10 - 15 Minutes

Working Time

Adhesive Covered & Flooring Rolled within 40 Minutes

Access Times During & After Installation

Heat Welding ≥ 24 Hours

Light Foot Traffic ≥ 12 Hours

Heavy Foot Traffic and Rolling Loads ≥ 24 Hours

Maintenance ≥ 48 Hours

Trowel Notch Dimensions are Depth x Width x Space

Coverage Rates are approximate and subject to level of porosity as well as ambient conditions, angle of the trowel, actual results may vary

Flash time and working time will vary with conditions; higher temps with higher humidity will be shorter than lower temps with lower humidity

Attributes & Certifications

Made in the U.S.A.

FloorScore Certification

Meets CA 01350 Requirements

Contributes to LEED v4/4.1

Meets SCAQMD Rule 1168 Requirements

HPD Available

Contains No Recycled Content

California Prop 65 Labeling

Part A, **WARNING:** Cancer and Reproductive Harm - www.P65Warnings.ca.gov

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

The following information is provided as general guidance, always refer to the current installation information on the product website for the resilient flooring being installed for complete information

Approved Flooring Products

ESD Vinyl & Rubber Tiles

ESD Vinyl & Rubber Sheet Goods

Approved Substrates & Surfaces

Concrete above, on, or below grade; properly prepared for moisture sensitive resilient flooring in place a minimum of 45 days

APA rated plywood underlayment

Properly prepared Portland cement based patches & underlayments

Properly prepared Gypsum cement based underlayments

Properly prepared Steel & Aluminum

Epoxy Mitigation & Sealers (100% solid and fully cured)

Stained concrete that is sound, smooth and free of waxes, cleaners and any other bond inhibiting substances



USD-810 ESD Epoxy

ADHESIVE TECHNICAL DATA

Radiant heated sub-floors

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.

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.

Adhesive Clean-Up

Uncured Adhesive can be removed with solution of 70% isopropyl alcohol and a clean cloth.

Cured adhesive will be difficult to remove from wall and flooring surfaces, ensure removal prior to curing.

Product & Substrate Restrictions

Not designed for use with products manufactured with polyolefin, polyethylene, or polypropylene.

Not designed for use on substrates that have been exposed to adhesive removers, solvents, or chemical cleaners.

Disposal

Disposal in accordance with local, state and federal regulations.

Do not allow product to get into drains, watercourses, or landfills.

Hardened product residues are considered construction waste.

Empty packaging is recyclable.

Product Warranty

1 Year Manufacturers Warranty

See product warranty for full details regarding bond warranty, limitations, and warranty coverage.

Technical Support

solutions@rhctechnical.com

Product Support

solutions@rhctechnical.com

Technical Documentation

www.excelsiorproducts.net