



# 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 sheer 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

<b>Product Type</b>	Two-Component Wet-Set Urethane Enhanced ESD Adhesive for porous (absorptive) and non-porous (non-absorptive) surfaces
<b>Characteristics</b>	Part A, Black Thick Paste Part B, Dark Grey Paste
<b>Packaging</b>	0.92 Gallon per Unit when Mixed Part A, Gallon Container Part B, Quart Container to empty into Part A for Mixing
<b>Sustainability Information</b>	Made in the U.S.A. Meets Buy America Act (49 CFR Part 661) Meets Buy American Act (41 USC §§ 8301-8303) Contributes to LEED v4/4.1 ≤12 grams/liter VOC Content (SCAQMD RULE 1168) Meets SCAQMD Rule 1168 Requirements FloorScore Certified Meets CA 01350 Requirements HPD Available Red List Chemical Free Contains No Recycled Content Manufacturers Product certified Cradle to Cradle Gold
<b>Moisture Control Properties</b>	Not a moisture inhibitor or mitigation product
<b>ASTM F2170 - RH Limit</b>	90%, <i>in situ</i>
<b>ASTM F1869 - MVER Limit</b>	6 lbs. / 1000 sq. ft. / 24 hours
<b>ASTM F710 - pH Limit</b>	≥ 7 - ≤ 10
<b>ASTM D7149 - Freeze Thaw Stability</b>	Up to 5 Cycles, Down to 0° F
<b>ASTM D1337 - Shelf Life</b>	2 Years from Manufacturing Date

**Reading the Date Code** B210201515293  
Ignore the A or 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



# USD-810 ESD Epoxy Adhesive

TECHNICAL DATA

**Shelf Life...** On the containers it is located on a white sticker on top of the pail

*Shelf Life depends on proper storage within service & storage temperatures in unopened container*

**ASTM D6004 - Adhesive Shear Resistance** Excellent

**ASTM D6862 - 90° Peel Resistance** Excellent

**ASTM D7888 - Plasticizer Resistance** Excellent

**California Prop 65** Part A, **WARNING:** Cancer and Reproductive Harm - [www.P65Warnings.ca.gov](http://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

**Application Method** Trowel Applied

**Trowel Sizes & Coverages**

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

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

**Flash Time**

**(Absorptive) Porous Substrates** Immediate

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

**Working Time** 30 - 40 Minutes

*Trowel notch dimensions are Width x Depth x Separation*

*Coverage rates are approximate and subject to level of porosity as well as ambient conditions as well as angle of the trowel, actual values may vary from stated amounts*

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

**Access Times During & After Installation**

**Heat Welding** 24 Hours

**Light Foot Traffic** 12 Hours

**Heavy Foot Traffic** 24 Hours

**Heavy Rolling Loads** 24 Hours

**Maintenance** 48 Hours

**Service & Storage Temperature** 65° - 85° F

***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 Rubber Tile

ESD Vinyl Tile

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

---

## Approved Substrates & Surfaces...

APA rated plywood underlayment

Properly prepared Portland cement based patches & underlayments

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

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 following information or ASTM F710 or ASTM F1482 at a minimum, as well as applicable ACI and RFCI guidelines.

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 and 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.

---

## 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



# USD-810 ESD Epoxy Adhesive

TECHNICAL DATA

---

**Disposal**

Dispose in accordance with local, state and federal regulations.

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

Hardened product residues are considered construction waste.

Empty packaging is recyclable.

---

**Warranty**

1 Year Manufacturer's Warranty

Bond Warranty determined by Warranty of product being installed, see warranty document for details

---

**Technical Support**

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

---

**Product Support**

[solutions@rhctechnical.com](mailto:solutions@rhctechnical.com)

---

**Technical Documentation**

[www.excelsiorproducts.net](http://www.excelsiorproducts.net)

---