Technical Data Sheet (TDS)

D737ESD High-Tack

Universal Static Dissipative Flooring Adhesive

Special features

- For wet or dry lay (pressure-sensitive adhesion)
- Electrostatic resistance less than 3 x 10^5 Ω
- Very long open time

GEV-EMICODE EC 1 PLUS very low emission

Product Description

STAUF D737 ESD is a highly specialized flooring adhesive that can be used for all static dissipative floor covering. It has a great green tack, high final shear and tensile strengths, and a very long open time.

D737 ESD installation methods can vary from a traditional wet lay method, a mid-level tacky, and even a dry pressure-sensitive type of installation. It can also be used in conventional wet lay on a concrete slab when installing over existing non-absorbent flooring. It can be applied directly over a wide variety of moisture sealers including two-part epoxy-based sealers.

D737 ESD is non-hazardous and is eligible for LEED points. It has a very low electrical resistance of less than 3 x 10^5 Ohm.

Pre-Installation Checklist

A successful installation requires proper preparation of the subfloor. Read and understand all applicable guidelines and technical data sheets before installation. Follow industry standards and flooring manufacturers' recommendations for subfloor moisture content, design, layout, and application of flooring materials. All flooring material's backing must be solid, sound, and free of anti-adherents. All slab constructions must meet the specific requirements of the floor covering to be installed.

Sub Floor Examination

Prior to installation, the subfloor must be checked according to applicable installation guidelines. It must be solid and sound, flat, permanently dry, clean, free of chaps, indentations, and anti-adherents, as well as resistant to pressure and tension. The moisture content of all floors must be measured before installation.

Sub Floor Preparation

Depending on the type and condition of the subfloor, a mechanical treatment (e.g. mechanical brushing, grinding, or sanding) may be required. The intensity of such work must be determined at the site by the installer. Dust, paint, residual adhesives, or other surface contaminants must be removed by suitable means. Cleaning the surface with an industrial vacuum cleaner is recommended. Cracks and gaps must be filled with concrete crack filler unless they are expansion joints. Level when necessary to 3/16 inches within 10 feet. Heated subfloors, gypcrete, wooden subfloors, levelers, patches, and lightweight concrete must be primed. Fast curing cementitious leveling or patching compounds might reduce the flash and work time of water-based products due to absorption.

Installation Procedure

Spread the adhesive with the appropriate notched trowel. Avoid excessive adhesive thickness by passing the trowel evenly through the adhesive at a 45-degree angle. Observe the appropriate flash time (if applicable). Lay the flooring into the adhesive, correctly position it and press down firmly. Be sure to check the back of the flooring to ensure a good adhesive transfer from subfloor to flooring is achieved. Roll flooring approx. 15-30 min. after installation with a 75-100# roller if recommended by the flooring manufacturer. Push down raised edges approx. 30-60 min. after installation.

When installing thin, non-porous floorings (including but not limited to VCT, LVT, LVP, SVT, Sheet Vinyl, and Carpet with Foam or Vinyl Backing) over a non-porous subfloor (including, but not limited to speed troweled concrete, epoxy and other moisture barriers, cutback mastic) a dry-lay or pressure-sensitive installation method must be used. The adhesive should be tacky but not transfer to your skin when placing your hand lightly onto the adhesive.

Limitations

When using other than STAUF products in conjunction with STAUF primers, sealers, leveling compounds, or adhesives, STAUF denies any and all responsibility for any ensuing problems and/or damages without prior written authorization from STAUF.
This adhesive will maintain its integrity and performance even when higher levels of moisture are present. While adhesive can withstand up to 8#/24 hr/1000SF (Calcium Chloride Test) and 85% RH (in-situ probe) of moisture, it does not qualify as a moisture inhibitor. Please see below for recommended sealers if a moisture barrier is required. Not suitable for areas with excessive topical moisture (i.e. melting snow, repeated flooding, pressure washing) or extreme horizontal shear forces; use R-Series adhesives under these circumstances.
In case of an accident, injury, spill, or exposure, see SDS for information. Consult the Technical Data Sheet at www.staufusa.com for updated information.
The foregoing representations are based on the results of our most current product and material testing within a controlled environment and are of a non-obligatory advisory nature only. As such, they do not constitute an express or implied warranty of any kind including the Warranty of Merchantability and/or Fitness for a Particular Purpose. Because we have no control over the actual quality of workmanship, materials used, and worksite conditions, STAUF USA LLC will in no event be liable for any incidental and/or consequential damages. Therefore, we strongly recommend that prior on-site testing be conducted to refer to and study the suitability of the product for the intended purpose. With the release of this Technical Information Sheet, all its prior versions become invalid. For warranty and warranty disclaimer information please see our Limited Lifetime Warranty @ www.staufusa.com

General Features
- LEED qualified
- Contains no isocyanates
- Contains no chlorinated solvents
- Certified green
- Nonflammable
- Ozone friendly
- Dispersion base cleans with water
- Not freeze/thaw stable
- Freeze/thaw stable (with limitations)

Installation Features
- Wet lay - no flash time required
- Very low odor
- Cleans with warm water and soap
- Excellent spread rate
- Long open time
- Spreads easily
- Higher temp will shorten drying time
- No risk of sensitization

Long Term Features
- Resistant against aging
- Suitable for radiant heat systems
- No health hazards

Approved Flooring
- Electrostatic Dissipative Flooring

Approved Subfloors
- Concrete Slabs
- OSB (underlayment grade)
- Plywood (underlayment grade)
- Felt backed Sheet Vinyl (well bonded, sanded, asbestos-free)
- Ceramic Tiles
- Stone, Terrazzo
- Cured Leveling Compounds
- Radiant Heated Subfloors
- Metal Floors
- Asphalt
- Stained Concretes (well bonded)

Flash Time (wet lay)
- 5-25 min. @ 70°F (21°C)

Open Time (wet lay)
- up to 60 min. @ 70°F (21°C)

Flash Time (dry lay)
- up to 60 min. @ 70°F (21°C)

Open Time (dry lay)
- up to 2 hours @ 70°F (21°C)

Approved Primers
- Primer is normally not required
- STAUF AQP-200 Eco-Prime

Approved Sealers
- STAUF ACS-210 True-Seal
- STAUF ERP-270 Perma-Seal

Approved Leveling Compounds
- STAUF ULC-500 Universal Leveling Compound
- STAUF SLC-540 Self Leveling Compound
- STAUF QFF-560 Quick Feather Float

Approved Trowels and Spread Rate
- Flat back material: XBL10 (7/64 x 5/64 in): up to 150 SF/gal
- Rough backed material: XBL11 (1/8 x 5/32 in): up to 100 SF/gal

Cure Time until Normal Traffic
- Approx. 24 hours

Clean-Up
- Use soap and water

Temperature Range during Installation
- 50-90F (10-32C)

Relative Humidity Range during Installation
- 30% - 80%

Packaging Size
- 3 gal. Plastic Pail

Color
- Grey

VOC (Rule 1168 calc.) [g/L]
- 22

pH value of concrete
- Must be below 12.4

Electrostatic Resistance
- less than 3 x 10^5 Ω

Transportation
- Freeze/thaw stable to -13F (-25C)

Storage
- Above 32F - Freeze/thaw stable to -13F (-25C)

Shelf Life
- 12 Months in original, unopened container