

Technical Data Sheet (TDS)

CTS-837 VCT Clear Thin Spread

Ultra Premium Clear Thin Spread Adhesive

Special features

- ▣ High-performance formula for installing vinyl composition tile (VCT)
- ▣ Fast tack and high shear strength to prevent tile slippage
- ▣ 24 hour working time
- ▣ Superior moisture resistance
- ▣ Excellent final bond
- ▣ Can be used over cutback adhesive residue
- ▣ Chalk lines can be seen through adhesive



Product Description

CTS-837 has been formulated to ensure superior adhesive performance under the very demanding conditions commonly found in today's fast-paced construction and raises the bar for the performance of clear thin spread adhesives. This acrylic enhanced formula means that contractors may install vinyl composition (VCT) and asphalt tile over concrete subfloors with elevated moisture emissions and in situ relative humidity levels. The CRI Green-label Plus Adhesive Certification Program has certified CTS-837 as a "low VOC" adhesive.

CTS-837 is an ultra-premium, professional adhesive that dries quickly and has a long-lasting grab for the installation of vinyl composition tile (VCT), asphalt tile, and AAT-approved carpet cushions (urethanes, synthetic fiber, rubber sponge). This acrylic enhanced adhesive dries to a transparent film allowing layout lines to remain visible. It is "installer-friendly" and "solvent-free."

CTS-837 spreads easily, has an extended working time, is outstandingly water-resistant, and is nonflammable. Like all of our adhesives, this adhesive is protected by the CleanGuard® two-stage antimicrobial. CleanGuard® is a specifically formulated broad-spectrum, anti-microbial agent that protects our adhesives and sealers from microorganisms, such as mold or mildew, in both the wet and dry states.

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.

Moisture content in concrete subfloors must be below 8#/24hr/1,000SF using the Calcium Chloride Test or less than 95% RH using the in-situ test per ASTM F1869 and F2170.

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.

Storage

Store and transport protected from freezing. Recommended minimum temperatures are 35°F for transport and 40°F for storage. Do not stir the product if frozen, allow it to thaw completely.

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.

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. This adhesive will maintain its integrity and performance even when higher levels of moisture are present. While adhesive can withstand up to 8#/24hr/1000SF (Calcium Chloride Test) and 95% 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.

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
- ❑ Dries in less than 2 hours
- ❑ Contains no VOC (calc. per CA Rule 1168)
- ❑ Nonflammable
- ❑ Dispersion base cleans with water
- ❑ Certified green, CRI GLP

Installation Features

- ❑ Grabs quicker, less slippage
- ❑ Very low odor
- ❑ Cleans with warm water and soap
- ❑ High spread rate
- ❑ Long open time
- ❑ Spreads easily
- ❑ Dries quickly
- ❑ Higher temp will shorten drying time

Long Term Features

- ❑ Resistant against aging
- ❑ Remains elastic

Approved Flooring

- ❑ VCT (Vinyl Composition Tiles)

Approved Subfloors

- ❑ Concrete Slabs
- ❑ OSB (underlayment grade)
- ❑ Plywood (underlayment grade)
- ❑ Cured Leveling Compounds
- ❑ Radiant Heated Subfloors

Flash Time (dry lay)

- ❑ 30 - 60 min

Open Time (dry lay)

- ❑ up to 24 hrs

Approved Primers

- ❑ Primer is normally not required
- ❑ STAUF AQP-200 Eco-Prime

Approved Sealers

- ❑ STAUF ACS-210 True-Seal

Approved Leveling Compounds

- ❑ STAUF SLC-540 Self Leveling Compound
- ❑ STAUF QFF-560 Quick Feather Float
- ❑ STAUF RLC-580 Fiber Level

Approved Trowels and Spread Rate

- ❑ VCT, asphalt tile over porous-#9 (1/32 x 1/16 x 1/32 U notch): up to 250 SF/gal.
- ❑ VCT, asphalt tile over non-porous-#13 (1/32 x 1/32 x 1/32 in square notch): up to 350 SF/gal.
- ❑ Carpet cushion-#8 (1/16 x 1/16 x 1/16 square notch): up to 150 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

- ❑ 4 gal. Plastic Pail
- ❑ 48 per pallet
- ❑ Case of 4x1 gal Plastic Pails
- ❑ 42 per pallet

Color

- ❑ Cream

pH value of concrete

- ❑ Must be between 7 and 9

Transportation

- ❑ Above 35F (do not stir if frozen, allow to thaw completely)

Storage

- ❑ Above 40F, protect from freezing

Shelf Life

- ❑ 12 Months in original, unopened container