

## Technical Data Sheet (TDS)

### SLC-540 Self Leveling Compound

High-Strength Self-Leveling Compound

#### Special features

- ▣ Levels up to 2" thick with no additive
- ▣ Levels up to 5" thick (with silica sand)
- ▣ Forms flat and even surface
- ▣ To be used under any flooring



#### Product Description

A cement and dispersion powder-based leveling compound. Contains no solvents, no VOC. Can be used under wood flooring, resilient flooring, and ceramic tile.

- Synthetic resin reinforced.
- Self-leveling, forms a flat and even surface.
- Levels up to a 5-inch variation in subfloors.

#### 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

Moisture content in concrete subfloors must be below 3#/24hr/1,000SF using the Calcium Chloride Test or below 75% RH using an in-situ probe per ASTM F1869 and F2170.

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

#### Sub Floor Preparation

The condition of the subfloor will determine which type of mechanical treatment is required (e.g. wire brushing, sanding, grinding, or shot blasting). Dust, paint, curing compounds, sealers, residual adhesives, or other surface contaminants MUST be removed and a porous surface achieved by suitable means. The extent of subfloor preparation can only be determined at the site by the installer. Clean the surface with an industrial vacuum cleaner and tack the floor with a damp microfiber mop before application. Do not use sweeping compounds unless they are water-based as most others will contain oil or wax which will act as an anti-adherent and prevent primers, sealers, leveling compounds, coatings, and/or adhesives from bonding to the concrete. Cracks and gaps must be treated prior to application of primers, sealers, leveling compounds, coatings, and/or adhesives (for details see Technical Information #19 @ [www.staufusa.com](http://www.staufusa.com)).

Apply suitable primer or sealer to the subfloor before spreading cement or gypsum-based leveling compounds to increase the bond.

#### Mixing of Components

Fill the correct amount of cold water into a bucket. Wear a proper dust mask when using powdered products in enclosed areas. While stirring add powder to the water and continue stirring until an even mixture is formed. Use an electric mixer with 600 to 800 rpm. Stir for two more minutes, wait one minute and stir again for one minute.

#### Installation Procedure

Spread the leveling compound within approx. 20 min. Do not pour the compound in one spot but evenly over the entire (approx. 6x6 ft.) area to be covered. The self-leveling compound does not need to be leveled mechanically and forms an even surface by itself. Protect the leveling compound from direct sunlight and draft during drying.

#### 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](http://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](http://www.staufusa.com)

**General Features**

- ❑ LEED qualified
- ❑ Dries in less than 2 hours
- ❑ Contains no solvents
- ❑ Contains no VOC (calc. per CA Rule 1168)
- ❑ Nonflammable
- ❑ Ozone friendly
- ❑ Freeze/thaw stable
- ❑ Works under any STAUF adhesive

**Installation Features**

- ❑ Creates dust free surface
- ❑ Eliminates hollow spots
- ❑ Very low odor
- ❑ Cleans with warm water and soap
- ❑ Spreads easily
- ❑ Dries quickly
- ❑ Higher temp will shorten drying time
- ❑ Observe pot life during installation

**Long Term Features**

- ❑ Resistant against aging
- ❑ Suitable for radiant heat systems with primer
- ❑ Eliminates hollow spots

**Approved Subfloors**

- ❑ Concrete Slabs
- ❑ OSB (underlayment grade)
- ❑ Plywood (underlayment grade)
- ❑ Felt backed Sheet Vinyl (well bonded, sanded, asbestos-free)
- ❑ Ceramic Tiles
- ❑ Stone, Terrazzo
- ❑ Radiant Heated Subfloors

**Approved Primers**

- ❑ STAUF AQP-200 Eco-Prime

**Approved Sealers**

- ❑ STAUF ACS-210 True-Seal

**Spread Rate**

- ❑ 1/8 in thick: up to 50 SF/unit

**Curing Time before Flooring Installation**

- ❑ Approx. 12 hours

**Temperature Range during Installation**

- ❑ 50-90F (10-32C)

**Relative Humidity Range during Installation**

- ❑ 30% - 80%

**Packaging Size**

- ❑ 50 lbs. Paper Bag
- ❑ 48 per pallet

**Color**

- ❑ Grey

**Mixing ratio**

- ❑ 5

**Storage**

- ❑ Dry

**Shelf Life**

- ❑ 6 Months in original, unopened container

**Thickness**

- ❑ 1/8 up to 2 in
- ❑ 2 up to 5 in with added silica sand

**Pot Life**

- ❑ Approx. 20 min. @ 70F (21C)

**Compression Strength [psi]**

- ❑ 5500