Technical Data Sheet (TDS)

ULC-500 LevelSeal

Two-Component Self-Leveling Compound

Special features

- Will withstand any moisture
- Moisture barrier up to 18# or 97% RH
- Can be applied in any thickness over 1/32"
- Cures in under 4 hours

Product Description
ULC-500 Level-Seal is a two-component urethane leveling compound capable of creating a moisture barrier of up to 18# CC or 97% RH. Level-Seal provides STC and IIC and can be directly adhered to in just under 4 hours. The product must be applied at a minimum of 1/32-in. but can be applied up to 5-in. ULC-500 is extremely durable and may be used in conjunction with other STAUF products.

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, clean, free of chaps and anti-adherents, and resistant to pressure and tension. While this product can withstand any moisture, it is not a moisture barrier beyond the limitations stated below. 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).

Mixing of Components
Pour Part B completely into Part A. Thoroughly mix the two components with an electric mixer for at least 3 minutes until a uniform mixture and color are achieved.

Installation Procedure
Spread the leveling compound within approx. 20 min. Pour the compound in a line approx. 6-12 feet long and as close to the wet edge as possible. Spread to the desired thickness by raking through the compound with the appropriate notched trowel. Avoid placing a trowel directly in already spread areas as it may result in small puddles or droplets that may not flow completely out.

Best results are achieved by moving in from a dry spot (not applied) and then passing through the leveler. Finish by moving the trowel to another dry spot (unapplied area) before lifting it from the floor. Use the blue roller as soon as the product is spread. 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 for updated information.
Subfloor temperatures between 32-50°F (0-10°C) will dramatically increase drying time up to 24 hours. Never install the product when subfloor temperature is below freezing or if condensation could occur on the subfloor within 24 hours after application.
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

- Moisture cured urethane
- LEED qualified
- Works under any type of flooring
- Contains no water
- Contains no solvents
- Contains no VOC (calc. per CA Rule 1168)
- Certified green
- Certified very low emission
- Nonflammable
- High solids content
- Ozone friendly
- Isocyanate based Urethane for strong bond
- Freeze/thaw stable
- Bridges cracks
- Contains no plasticizers

Installation Features

- Creates dust free surface
- Eliminates hollow spots
- Very low odor
- Spreads easily
- Dries quickly
- Higher temp will shorten drying time
- Observe pot life during installation
- Suppresses minor cracks in concrete slabs
- Cleans with urethane cleaner

Long Term Features

- Resistant against aging
- Remains elastic
- Suitable for radiant heat systems

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
- Wet Concrete Slab up to 18#/24hr/1,000SF and 97% RH
- Metal Floors
- Asphalt

Approved Primers

- STAUF EHS-265 Epoxy-Prime

Spread Rate

- XBL11 (1/8 x 5/32 in): up to 42 SF/gal. (38 mil)

Curing Time before Flooring Installation

- Between 4 and 6 hours

Temperature Range during Installation

- 50-90F (10-32C)

Relative Humidity Range during Installation

- 20% - 90%

Packaging Size

- 2 gal. Plastic Pail + 1-3/4 qrt. Plastic Can

Weight [lbs./gal.]

- 11.9

Color

- Cream

Color Hardener

- Brown

Mixing ratio

- 6.3 Parts A + 1 Part B by weight

Shelf Life

- 24 Months in original, unopened container

Thickness

- 1/32 to 5 in

Pot Life

- Approx. 20 min. @ 70F (21C)

Compression Strength [psi]

- > 14,500 psi (> 100 N/mm²)

Clean-up

- Use STAUF UCL-QT while wet
- Product will damage surfaces - clean while wet