Technical Data Sheet (TDS)

WFR-930 Solva-Mastic®

Alcohol-Based Wood Flooring Adhesive

Special features

- Superior "Green Grab" unmatched by any other adhesive
- Contains no chlorinated solvents
- Eliminates hollow spots under wood flooring
- Easily spread and cleaned
- U.S. Patent 7,179,088 B2

Product Description

STAUF WFR-930 Solva-Mastic is an alcohol-based, high-strength adhesive for professional wood flooring installation. It contains no chlorinated solvents or other materials harmful to one's health. It is ozone and environmentally safe.
The adhesive spreads easily and has a non-slump formula that will help insure contact and adhesive transfer. It allows fast installation even with complicated patterns due to its strong green grab. There is no flash time required, so installation can commence immediately. Rolling is neither required nor recommended. It offers superior flexibility and is designed to keep the flooring in place, yet allow for normal movement during seasonal changes to the flooring.

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 NWFA installation guidelines. It must be solid and sound, flat, permanently dry, clean, free of chaps, indentations, and anti-adherents, and resistant to pressure and tension. The moisture content of all floors must be measured before installation. 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.
All wood floors should have 6-9% moisture content at installation. There should be no more than a 4-5% variance in moisture content between the wood flooring and any wood subfloor. See NWFA guidelines and the wood flooring manufacturer's recommendations for details.

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 on-site by the installer. Dust, paint, residual adhesives, dirt, oil, grease, sealers, curing compounds, waxes, silicates, laitance, 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, 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 and should be primed.

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° angle. There is no flash time, so installation should begin immediately. Lay the flooring into the adhesive, correctly position it and press down firmly. Rolling is neither required nor recommended. Be sure to check the boards at regular intervals to ensure a good adhesive transfer from subfloor to flooring is achieved. Bowed boards or boards over low spots should be weighted down until the adhesive cures.

Storage

Place lid on pail tightly. Store pail in a cool dry place. Observe official regulations on storage and handling of flammable liquids red label). DOT Class 3 Hazmat UN 1133 Adhesives.

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.
Observe mandatory regulations concerning installations where flammable liquids are used. This adhesive will not prevent moisture-related damage to wood flooring.
Do not install solid wood below grade. Do not use on concrete with curing agents or sealers except approved STAUF Sealers. Do not use on damp subfloors. Do not install wood flooring with a moisture reading above 9%. Do not use adhesive as a leveling material.
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

- Contains no isocyanates
- Contains no water
- Contains no chlorinated solvents
- Flammable
- Ozone friendly
- Alcohol base for performance
- Freeze/thaw stable

Installation Features

- Wet lay - no flash time required
- Superior green grab
- Non-slump formula
- Bridges normal sub floor variations
- Eliminates hollow spots
- Pleasant odor
- Cleans with acetone
- No rolling required
- High spread rate
- Spreads easily
- Dries quickly

Long Term Features

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

Approved Flooring

- Engineered Wood Flooring
- Parquet
- Bamboo or Eucalyptus NOT approved

Approved Subfloors

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

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

Approved Trowels and Spread Rate

- Engineered Floors-#5 (3/16 x 1/4 x 3/8 in) up to 60 SF/gal.
- Parquet-#3 (5/32 x 1/8 x 3/16 in) up to 70 SF/gal.
- Underlayments-#15 (3/32 x 3/32 x 3/32 in) up to 130 SF/gal.

Cure Time until Normal Traffic

- Between 48 and 72 hours

Clean-Up

- Use acetone while wet or dried
- Will not etch floor finish

Temperature Range during Installation

- 50-90F (10-32C)

Relative Humidity Range during Installation

- 30% - 80%

Packaging Size

- 4 gal. Metal Pail
- 36 per pallet

Color

- Beige

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

- 90

Flash Point [°F]

- 28

pH value of concrete

- Must be below 12.4

Transportation

- UN 1133 Adhesive DOT Class 3 Flammable Liquid

Storage

- Obey local storage regulations for flammable liquids

Shelf Life

- 24 Months in original, unopened container

Shear Strength

- 682 psi (4.7 N/mm²)

Open Time	30% R/H	50% R/H	80% R/H
50F/10C	25 min	35 min.	40 min.
70F/21C	23 min.	30 min.	35 min.
90F/32C	20 min.	25 min.	30 min.