

## Technical Data Sheet (TDS)

### SMP-960 One-Step®

Polymer Based Wood Flooring Adhesive

#### Special features

- ▣ reduces materials and steps from 4 to 1
- ▣ provides sound barrier up to STC & IIC of 72 and 74 dB
- ▣ moisture barrier up to 14# or 92% RH



#### Product Description

STAUF SMP-960 One-Step is an advanced formula, unique polymer 4-in-1 adhesive designed for professional wood flooring installation. It replaces isocyanate-containing urethane adhesives which can etch flooring surfaces. It is ozone and environmentally safe since it has no solvents or other hazardous materials. It is certified 'green' and qualifies for LEED credits. And it meets ASTM standards for sound and impact noise control. Long open time allows for easy installations. Since there is no water or solvent present, it will not cause dimensional changes to wood flooring. SMP-960 offers superior flexibility and moisture-mitigating capability.

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 sub floor. Read and understand all applicable guidelines and technical data sheets before installation. Follow industry standards and flooring manufacturer's recommendations for sub floor moisture content, design, layout and application of flooring materials. All slab constructions must meet the specific requirements of the floor covering to be installed.

#### Sub Floor Examination

Prior to installation, the sub floor 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, as well as resistant to pressure and tension. Moisture content of all floors must be measured before installation.

Moisture content in concrete sub floors must be below 3#/24h/1,000 sq. ft. using the Calcium Chloride Test or below 75% RH using an in-situ probe. When used in conjunction with a #12 trowel (up to 35 SF/gal) a moisture barrier of up to 14#/24h/1,000 sq. ft. using the Calcium Chloride Test or up to 92% RH using an in-situ probe may be achieved and is warranted.

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 sub floor. See NWFA guidelines and the wood flooring manufacturer's recommendations for details.

#### Sub Floor Preparation

Depending on type and condition of sub floor, a mechanical treatment (e.g. mechanical brushing, grinding or sanding) may be required. 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 sub floors must 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 degree 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 make certain good adhesive transfer from floor to flooring is accomplished. Bowed boards or boards over low spots should be weighted down until the adhesive cures.

#### 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 accident, injury, spill or exposure, see MSDS sheet for information. Consult technical data sheet at [www.staufusa.com](http://www.staufusa.com) for updated information.

Do not install solid wood below grade. Do not use on concrete with curing agents or sealers. Do not install wood flooring with a moisture reading above 9%. Do not use adhesive as a leveling material. This adhesive will not prevent moisture-related damages to wood flooring caused by flooding, busted pipes etc., or where moisture conditions are in excess of limitations outlined in the Sub Floor Examination.

This adhesive is mold and mildew resistant and waterproof when fully cured and will not dissolve if it gets wet. However, it will not prevent moisture-related damages to wood flooring unless it is used as a moisture barrier within the limitations set forth in the technical data sheet.

## General Features

- ▣ LEED qualified
- ▣ contains no isocyanates
- ▣ contains no water
- ▣ contains no solvents
- ▣ contains no VOC
- ▣ certified "green"
- ▣ certified "very low emission"
- ▣ nonflammable
- ▣ high solids content
- ▣ ozone friendly
- ▣ moisture and sound barrier in one step process
- ▣ Freeze/thaw stable
- ▣ bridges cracks

## Installation Features

- ▣ wet lay - no flash time required
- ▣ strong green grab
- ▣ non-slump formula
- ▣ bridges normal sub floor variations
- ▣ eliminates hollow spots
- ▣ very low odor
- ▣ cleans with acetone
- ▣ no rolling required
- ▣ does not cause cupping of wood flooring
- ▣ long open time
- ▣ spreads easily
- ▣ higher temp & RH will shorten drying time

## Long Term Features

- ▣ resistant against aging
- ▣ remains elastic
- ▣ sound reduction: STC & IIC @ 72/74 dB
- ▣ moisture barrier up to 14# or 92% RH w/#12 trowel
- ▣ suitable for radiant heat systems with primer
- ▣ allows normal dimensional changes in wood flooring
- ▣ adhesive is waterproof when cured
- ▣ No health hazards

## Approved Flooring

- ▣ Engineered Wood Flooring
- ▣ Ceramic & Stone
- ▣ Strip Flooring
- ▣ Shorts
- ▣ Planks
- ▣ Solid Wood Flooring must be straight and flat
- ▣ Bamboo Flooring (except Stranded Bamboo)

## Approved Sub Floors

- ▣ Concrete Slabs
- ▣ OSB (underlayment grade)
- ▣ Plywood (underlayment grade)
- ▣ Ceramic Tiles
- ▣ Stone, Terrazzo
- ▣ Cured Leveling Compounds
- ▣ Radiant Heated Sub Floors
- ▣ Wet Concrete Slab up to 14#/24hrs/1,000SF and 92% RH

## Approved Primers

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

## Approved Sealers

- ▣ Sealer is normally not required

## Approved Trowels and Spread Rate

- ▣ Moisture Barrier-#12: up to 35 SF/gal. (Must use one per pail)

## Cure Time until Normal Traffic

- ▣ approx. 48 hours

## Clean-Up

- ▣ Use acetone while wet
- ▣ Use plastic scraper and terry cloth when dry

## Temperature Range during Installation

- ▣ 50°-90°F

## Relative Humidity Range during Installation

- ▣ 30% - 80%

## Packaging Size

- ▣ 3 gal. Plastic Pail
- ▣ 48 per pallet

## Weight [lbs./gal.]

- ▣ 13.7

## Color

- ▣ Brown

## Shear Strength

- ▣ 363 psi (2.5 N/mm<sup>2</sup>)

## Water Vapor Permeability [ASTM E-96]

- ▣ 0.1 g / 24h \* m<sup>2</sup> \* mmHg
- ▣ 0.1 perms\* inches

## Shelf Life

- ▣ 12 Months in original, unopened container

Open Time	30% R/H	50% R/H	80% R/H
50 F / 10 C	2 1/2 hours	2 hours	1 1/2 hours
70 F / 21 C	1 3/4 hours	1 1/4 hours	1 hour
90 F / 32 C	1 hour	50 mins	40 mins