

Technical Data Sheet (TDS)

PUM-950 Power-Mastic®

Urethane Based Wood Flooring Adhesive

Special features

- Moisture Cured Urethane Adhesive
- contains no isocyanates to etch finishes or harm installers
- moisture barrier up to 10# or 88% RH
- □ Has higher shear strength than competitors
- □ Patent No 2,606,082





Product Description
STAUF PUM-950 Power-Mastic provides a tremendous improvement for urethane adhesives. It is a urethane based, high-strength adhesive for professional wood flooring installation. But unlike other Urethane adhesives, it contains no isocyanates, the primary chemical in other urethane adhesives that will etch fine floor finishes and is a suspected carcinogen. Nor does it contain any solvents or other hazardous materials. It is therefore safe for the ozone and environment. And it is certified to meet some of the toughest "green" product requirements in Europe and the world. It qualifies for LEED credits.

Long open time allows for easy installations. Since there is no water or solvent present, it will not cause dimensional changes to wood flooring at installation. It has a higher shear strength than competitors, so it grabs, holds and keeps wood floors in place. This adhesive is waterproof when fully cured and will not dissolve if it gets wet. This adhesive has earned the highest GEV-EMICODE EC 1 ranking by the European Association for Control of Emissions for Flooring. See www.emicode.com for information.

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

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.

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. 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.

When adhesive is not used as a moisture barrier, 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 per ASTM F1869 and F2170. When used in conjunction with a #12 trowel/blade (up to 35 SF/gal) a moisture barrier of up to 10#/24h/1,000 sq. ft. using the Calcium Chloride Test or up to 88% RH using an in-situ probe may be achieved and is warranted.

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 sub floor to flooring is achieved. Bowed boards or boards over low spots should be weighted down until the adhesive cures.

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.

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

In case of accident, injury, spill or exposure, see SDS sheet for information. Consult technical data sheet at 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.

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. herefore, 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

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General Features

- LEED qualified
- contains no isocyanates
- contains no water
- nigh shear strength
- contains no solvents
- contains no VOC (calc. per CA Rule 1168)
- certified "green" certified "very low emission"
- nonflammable
- nigh solids content
- ozone friendly
- □ Freeze/thaw stable

Installation Features

- wet lay no flash time required
- strong green grab
- non-slump formula
- □ bridges normal sub floor variations
- very low odor
- cleans with acetone
- no rolling required
- excellent spread rate
- □ long open time
- spreads easily
- □ higher temp & RH will shorten drying time
- No risk of sensitization

Long Term Features

- resistant against aging
- remains elastic
- □ suitable for radiant heat systems with primer
- allows normal dimensional changes in wood
- adhesive is waterproof when cured
- No health hazards
- □ Stronger shear srength reduces cupping
- moisture barrier up to 10# or 88% RH using XBL12

Approved Flooring

- □ Engineered Wood Flooring
- □ Strip Flooring
- Shorts
- □ Planks, up to 7" wide
- Parquet
- Solid Wood Flooring must be straight and flat
- Bamboo or Eucalyptus Flooring (except Strand Woven Products)

Approved Sub Floors

- Concrete Slabs
- OSB (underlayment grade)
- □ Plywood (underlayment grade)
- Felt backed Sheet Vinyl (well bonded, sanded, asbestos-free)
- Ceramic Tiles
- □ Stone, Terrazzo
- □ Cured Leveling Compounds
- Radiant Heated Sub Floors
- Wet Concrete Slab up to 10#/24hrs/1,000SF and 88% RH

Approved Primers

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

Approved Sealers

□ STAUF ACS-210 True-Seal

- Approved Leveling Compounds

 □ STAUF ULC-500 Universal Leveling Compound
 - □ STAUF SLC-540 Self Leveling Compound
 - STAUF QFF-560 Quick Feather Float
 - STAUF RLC-580 Fiber Level

Approved Trowels and Spread Rate

- Engineered Floors-#14 (3/16"x1/4"x9/16") up to 85 SF/gal (sub floor/flooring gap 1/8" max)
- Engineered Floors-#5 (3/16"x1/4"x3/8") up to 60 SF/gal.
- Solid Floors-#4 (1/4"x7/32"x9/32") up to 50 SF/gal.
- Moisture Barrier-#12: up to 35 SF/gal. (Must use one per pail)
- □ Underlayments-#15 (3/32"x3/32"x3/32") up to 130 SF/gal.

Cure Time until Normal Traffic

□ between 24 and 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

Color

■ Cream

Shelf Life

■ 12 Months in original, unopened container

Shear Strength

□ 391 psi (2.7 N/mm²)

Water Vapor Permeability [ASTM E-96]

- 0.16 g / 24h * m² * mmHg
- 0.16 perms * inches

Open Time	30% R/H	50% R/H	80% R/H
50F/10C	2 1/2 hours	2 hours	1 1/2 hours
70F/21C	1 3/4 hours	1 1/4 hours	1 hour
90F/32C	1 hour	50 mins	45 mins

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