

POWER-MASTIC® PUM 950

PATENT PENDING

STAUF®

FLOORING ADHESIVES USA

URETHANE BASED WOOD FLOORING ADHESIVE

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 in 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 twice the shear strength of 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; however, it will not prevent moisture-related damages to wood flooring. 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.

PRODUCT FEATURES

General Features:

- Contains no isocyanates to etch floor's finish
- Contains no water
- Twice the shear strength of competitors
- Contains no solvents
- Contains no VOC
- Certified "green"
- Certified "very low emission"
- Nonflammable
- Ozone friendly
- Freeze/thaw stable
- LEED qualified
- Excellent spread rate

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 or mineral spirits
- 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 flooring
- Adhesive is waterproof when cured
- No health hazards
- Stronger shear strength reduces cupping

PRODUCT USAGE

Approved Flooring:

- Engineered Flooring
- Strip Flooring
- Shorts
- Planks
- Parquet
- Solid Wood Flooring must be straight and flat
- Bamboo Flooring (except Stranded Bamboo)

Suitable Primers:

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

Approved Sub Floors:

- Concrete slabs
- OSB, Plywood, Particle or Chipboard (underlayment grade)
- Old floors with adhesive residues, sanded
- Vinyl, well bonded
- Ceramic Tiles
- Stone, Terrazzo
- Cured Leveling Compounds
- Radiant heated sub floors

Suitable Sealers:

- STAUF ACS-210 True-Seal
- STAUF ERP-270 Perma-Seal

Approved Trowels:

Engineered Floors:

- Trowel #14 up to 85 SF/gal (Sub floor/flooring gap 1/8" max.)

- Trowel #5 up to 60 SF/gal

Solid Floors:

- Trowel #4 up to 50 SF/gal

Parquet (solid or engineered):

- Trowel #3 up to 70 SF/gal

Underlayments:

- Trowel #15 up to 100 SF/gal (see back for trowel specs)

Packaging Size:

- 3 Gallon plastic pail

Shelf Life:

- 12 months in original unopened container



OPEN TIME

	+50 °F	+70 °F	+90 °F
30% Humidity	2 1/2 hours	1 3/4 hours	1 hour
50% Humidity	2 hours	1 1/4 hours	50 mins.
80% Humidity	1 1/2 hours	1 hour	45 mins.



**THE ONLY URETHANE
THAT WON'T ETCH FINISHES**

POWER-MASTIC® PUM 950



INSTALLATION PROCEDURE

Pre-Installation Checklist:

A successful installation requires proper preparation of the sub floor. Read and understand all applicable guidelines and technical data sheets before beginning 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 starting, 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 antiadherents 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#/24hrs/1,000 sq. ft. using the Calcium Chloride Test or below 75% RH using an *in-situ* probe. 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 subfloor, 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 pollution must be removed by suitable means. We recommend cleaning the surface with an industrial vacuum cleaner. With the exception of expansion joints, all cracks and gaps must be filled with concrete crack filler unless they are expansion joints. Level when necessary to 3/16" within 10'. Heated sub floors must be primed.

Installation:

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 wood floor 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.

USAGE & ACCIDENT INFORMATION

Please refer to our technical data sheet and MSDS for information. See website at www.staufusa.com.

LIMITATIONS

When using other than Stauf products in combination with Stauf adhesives, we deny any and all responsibility for any ensuing problems and/or damages without prior written permission from Stauf.

- Do not install solid wood below grade.
- Do not use on concrete with curing agents or sealers except Stauf ACS-210 or Stauf ERP-270.
- Do not use on damp sub floors.
- Do not install wood flooring with moisture reading above 9%.
- Do not use as leveling material.
- This adhesive is mold and mildew resistant and waterproof when fully cured. It will not dissolve if it gets wet. However, it will not prevent moisture-related damages to wood flooring.

ADHESIVE PROPERTIES

Cure Time until Normal Traffic

- between 24 and 48 hours

Clean-up

- Use acetone or mineral spirits while wet
- Use plastic scraper and terrycloth when dry

Temperature Range During Installation

- 50° - 90°F

Relative Humidity Range During Installation

- 30% - 80%

Weight (lbs./gal.)

- 13.7

Color

- Cream

Shear Strength

- 391 psi (2.7 N/mm²)

TROWEL SPECIFICATIONS

Depth x Width x Distance

- Trowel #3: flat-V notch 5/32" x 1/8" x 3/16"
- Trowel #4: flat-V notch 1/4" x 7/32" x 9/32"
- Trowel #5: flat-V notch 3/16" x 1/4" x 3/8"
- Trowel #14: flat-V notch 3/16" x 1/4" x 9/16"
- Trowel #15: flat-V notch 3/32" x 3/32" x 3/32"

STORAGE & TRANSPORT

Place the foil insert over any remaining adhesive in the pail, set the silica gel moisture absorption bag on top, and place lid on pail tightly. Store pail in cool dry place.

