

WIDE PLANK ADHESIVE

PUK 455

URETHANE BASED WOOD FLOORING ADHESIVE

STAUF®

— ADHESIVES SINCE 1828 —

PRODUCT DESCRIPTION

STAUF PUK-455 is a urethane based, high-strength adhesive for professional wood flooring installation. It is specially formulated for wide plank floors. PUK-455 has an extremely high shear strength to help control common cupping problems associated with wide width solid flooring.

PUK-455 spreads easily and has a non-slump formula to allow the ridges to bridge gaps between wood flooring and sub floor. Since there is no water or solvent present it will not cause dimensional changes to wood flooring.

PUK-455 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.



PRODUCT FEATURES

General Features:

- moisture cured urethane
- LEED qualified
- contains no water
- high shear strength
- contains no solvents
- contains no VOC
- certified "green"
- certified "very low emission"
- nonflammable
- high solids content
- ozone friendly
- moisture cured for a strong bond
- Isocyanate based Urethane for strong bond
- Freeze/thaw stable

Installation Features:

- grabs quicker, less slippage
- wet lay - no flash time required
- superior green grab
- non-slump formula
- bridges normal sub floor variations
- very low odor
- no rolling required
- does not cause cupping of wood flooring
- high spread rate
- long open time
- spreads easily
- higher temp & RH will shorten drying time
- cleans with urethane cleaner

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
- Eliminates hollow spots
- Stronger shear strength reduces cupping

OPEN TIME

	30% R/H	50% R/H	80% R/H
50°F/10°C	60 mins.	50 mins.	40 mins.
70°F/21°C	50 mins.	40 mins.	30 mins.
90°F/32°C	40 mins.	30 mins.	20 mins.

PRODUCT USAGE

Approved Flooring:

- Planks, over 7" wide

Approved Sub Floors:

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

Approved Sealers:

- STAUF ACS-210 True-Seal
- STAUF ERP-270 Perma-Seal
- VPU-155 "S" Urethane Sealer

Approved Leveling Compounds:

- STAUF QFP-520 Quick Floor Patch
- STAUF SLC-540 Self Leveling Compound
- STAUF QFF-560 Quick Feather Float
- STAUF ULC-500 Universal Leveling Compound

Approved Trowels:

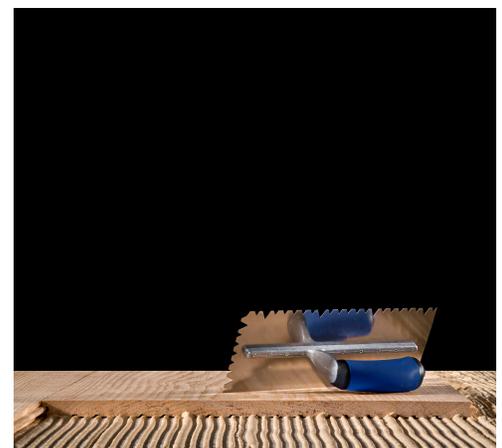
- Solid Planks-#17: up to 40 SF/gal.

Packaging Size:

- 3 gal. Plastic Pail
- 48 per pallet

Shelf Life:

- 12 Months in original, unopened container



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 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.

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:

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.

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.

This adhesive is mold and mildew resistant and water-proof 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 (if applicable) within the limitations set forth in the technical data sheet.

- Do not install solid wood floors below grade.
- Do not use on concrete with curing agents or sealers except approved STAUF Sealers.
- Do not use on damp sub floors.
- Do not install wood flooring with moisture reading above 9%.
- Do not use as leveling material.

ADHESIVE PROPERTIES

Cure Time until Normal Traffic

- approx. 12 hours

Clean-up

- Use STAUF URG-QT if dried
- Use STAUF UCL-QT while wet

Temperature Range During Installation

- 50° - 90°F

Relative Humidity Range During Installation

- 30% - 80%

Weight (lbs./gal.)

- 11.1

Color

- Cream

USAGE & ACCIDENT INFORMATION

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