

## Technical Data Sheet (TDS)

### PIC-850 Contractor's Urethane Adhesive

Moisture cured Urethane Wood Flooring Adhesive

#### Special features

- ▣ Easy to Spread
- ▣ No Flash Time
- ▣ Long Open Time
- ▣ Fast setting



#### Product Description

STAUF PIC-850 Contractor's Urethane Adhesive is a urethane based, high-strength adhesive for professional wood flooring installation. It qualifies for LEED credits.

Long open time allows for easy installations. Since there is no water present, it will not cause dimensional changes to wood flooring at installation. 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.

The adhesive spreads easily and has a non-s 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 NWFPA 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 NWFPA 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 sub floor to flooring is achieved. Bowed boards or boards over low spots should be weighted down until the adhesive cures. Any adhesive on the surface of the flooring must be cleaned up immediately to prevent damage to the finish.

#### Storage

Place plastic bag across top of pail. Place lid on pail and seal tightly. Turn pail over and store in a cool dry place.

#### 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. 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 sub floors. Do not install wood flooring with a moisture reading above 9%. Do not use adhesive as a leveling material. In case of accident, injury, spill or exposure, see SDS sheet for information. Consult technical data sheet at [www.staufusa.com](http://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. 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](http://www.staufusa.com)

## General Features

- ▣ LEED qualified
- ▣ contains no water
- ▣ contains no chlorinated solvents
- ▣ nonflammable
- ▣ high solids content
- ▣ ozone friendly
- ▣ Isocyanate based Urethane for strong bond
- ▣ Freeze/thaw stable

## Installation Features

- ▣ wet lay - no flash time required
- ▣ non-slump formula
- ▣ no rolling required
- ▣ does not cause cupping of wood flooring
- ▣ long open time
- ▣ spreads easily
- ▣ higher temp & RH will shorten drying time
- ▣ cleans with urethane cleaner

## Long Term Features

- ▣ resistant against aging
- ▣ suitable for radiant heat systems with primer
- ▣ allows normal dimensional changes in wood flooring
- ▣ adhesive is waterproof when cured

## Approved Flooring

- ▣ Engineered Wood Flooring
- ▣ Parquet
- ▣ Bamboo NOT approved
- ▣ Underlayments
- ▣ Laminate Flooring

## Approved Sub Floors

- ▣ Concrete Slabs
- ▣ OSB (underlayment grade)
- ▣ Plywood (underlayment grade)
- ▣ Vinyl (well bonded, grinded, tested negative for asbestos)
- ▣ Ceramic Tiles
- ▣ Stone, Terrazzo
- ▣ Cured Leveling Compounds
- ▣ Radiant Heated Sub Floors
- ▣ Metal Floors
- ▣ Epoxy Sealers (100% solid, cured)

## Approved Primers

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

## Approved Sealers

- ▣ STAUF ACS-210 True-Seal
- ▣ STAUF ERP-270 Perma-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-#5 (3/16"x1/4"x3/8") up to 60 SF/gal.
- ▣ Parquet-#3 (5/32"x1/8"x3/16") up to 70 SF/gal.
- ▣ 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 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%

## Packaging Size

- ▣ 4 gal. Metal Pail
- ▣ 36 per pallet

## Color

- ▣ Grey

## Shear Strength

- ▣ 189 psi (1.3 N/mm<sup>2</sup>)

## Storage

- ▣ dry

## Shelf Life

- ▣ 12 Months in original, unopened container

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