

Rev: February 2016

PRODUCT DATA SHEET

Specially formulated for use with Shannon Specialty Floors flooring products including barenaked™, TUF STUF™ and Teknoflor®, TUF STIK SPX™ is a one component 100% solids, cross-linking modified polymer-based adhesive formulated for the installation of all types of resilient flooring in demanding environments. This solvent free, water free, and isocyanate free, non-flammable, easy troweling high strength product is an excellent replacement for epoxy and urethane adhesives, and provides excellent installations for both vinyl and PVC-Free products including tile and plank, homogeneous and heterogeneous sheet goods over porous and non-porous surfaces. TUF STIK SPX™ has very low odor, is waterproof and impervious to alkalinity when cured.

TUF STIK SPX™ features extremely low permeability ratings, withstands maximum moisture levels of 10 lbs. and 90% RH, **provides sound deadening performance up to IIC 59 & STC 61 sound ratings with a Delta IIC of 19**, imparts crack isolation protection up to 1/8", enhances thermal insulating properties, and is unaffected by concrete slab alkalinity. TUF STIK SPX™ has low odor, negligible VOC content, contains no hazardous chemicals as per OSHA Regulation CFR 1910.1200 and meets all federal, state, and local governmental indoor air quality regulations. This specially formulated adhesive provides early strength and quickly builds into a tenacious but elastic resilient bond as the adhesive cross-links. Plasticizer migration resistance allows installation of a broad variety of resilient floor products.

TUF STIK SPX™ may be used over APA grade underlayment plywood, association grade particleboard, OSB, cork underlayment, existing well-bonded resilient flooring, terrazzo, cementitious and anhydrite screeds, concrete, and radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C). Install above, on, or below grade, in the absence of excessive moisture. While this adhesive is waterproof when cured, during installation and curing, the adhesive must be protected from excessive moisture. Moisture levels of concrete must be below 10 lbs. per 1000 sq. feet per 24 hours (according to ASTM F-1869 test method) and 90.0% RH (tested in accordance with ASTM F-2170).

SUITABLE SUBSTRATES:

Properly prepared double layer wood subfloors with a minimum 1 inch total thickness using APA or other suitable ¼ inch or thicker underlayment grade plywood; terrazzo; ceramic; existing well adhered non-cushion vinyl tile and sheet goods; radiant heated subfloors where surface temperatures do not exceed 85° F (29.40° C); and above, on, or below grade concrete in the absence of hydrostatic pressure, excessive moisture or surface alkalinity. TUF STIK SPX has no pH limits. Moisture level of concrete must be at or below 90.0% Relative Humidity (ASTM F-2170) and or 10.0 lbs./1000 sq. ft./24 hours Moisture Vapor Emissions Rate (ASTM F-1869). Wood substrates must be checked with a calibrated pin moisture meter. Readings between the subfloor / structural wood and underlayment panels must be within 2% and be less than 14% moisture content. If test results exceed the adhesive limitations, the installation should not proceed until the problem has been corrected.

SUBSTRATE PREPARATION:

All substrates must be sound, clean, flat and smooth, dry and free of dust, dirt, wax, grease and oil, marker and paint, and any other deleterious contaminants that may stain the flooring or interfere with a good bond. Concrete must be fully cured and free of hydrostatic pressure or excessive moisture or out of spec surface alkalinity conditions and shall be free of incompatible curing compounds or sealers, fire retardant chemicals, release agents and other concrete treatments or additives that may prevent a good bond. Level high spots and fill low spots, crack or depressions using a high quality 3,500 psi cement or calcium aluminate smoothing and patching underlayment according to the instruction of the underlayment manufacturer. Do not fill expansion joints or other moving joints. Always perform a bond test prior to installation. DO NOT install over chemically abated or chemically cleaned substrates. It is the sole responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation.

INSTALLATION:

The installation site must be acclimated with HVAC in operation. The adhesive, floor covering and subfloor surface to receive flooring must be acclimated to within 2° F of each other and between of 65° to 85° F (18° to 29° C) and at a relative humidity of 35% to 65% for 72 hours before, during, and after installation. Follow the Shannon Specialty Floors installation guidelines for detailed instructions.

Apply TUF STIK SPX™ Adhesive with the recommended trowel and lay tile, plank or sheet goods immediately into wet adhesive. Adhesive must wet transfer 100% to flooring product to ensure proper bond. Adhesive working time is approximately 60-75 minutes, but will vary with ambient job site conditions. Adhesive is self-leveling so back rolling of the adhesive is generally not necessary. After installation of the flooring, roll installation with a 100 lb. 3 section roller in both directions.

TROWEL RECOMMENDATIONS:

Type of Installation	Trowel Size* and Notch	Coverage
Commercial Sheet Goods, Tile and Plank Flooring	1/16" x 1/32" x 1/32" U 1.6mm x 0.8mm x 0.8mm U	200 - 300 sq. ft./gallon 4.8 - 7.3 sq. meters/liter



*Trowel dimension is width x depth x spacing. Coverage is approximate and may vary depending on porosity of substrate and the angle at which the trowel is held. ***IT IS THE INSTALLERS RESPONSIBILITY TO APPLY THE PROPER AMOUNT OF ADHESIVE FOR THE JOB CONDITION.***

AFTER INSTALLATION:

Restrict foot traffic for 24 hours and the movement of heavy rolling loads and heavy objects for a minimum of 48 to 72 hours to allow the adhesive to cure properly. Premature traffic can cause indentations, gapping and movement and other installation issues.

PHYSICAL PROPERTIES:

Base: Modified Polymer Blend
Appearance: White, smooth, creamy, easy to trowel.
Working time: Approximately 60-75 minutes at the recommended temperature and humidity.
Higher humidity will speed up the curing process
Shelf life: Six months in unopened container at 70° F (21.10° C).
VOC Content: 0.5 g/l when tested in accordance with SCAQMD Rule 1168.
Clean up: WET - Remove excess adhesive with a dry cloth. Wipe off remaining using dry method.
DRY - Clean cloth with Heavy Duty Goof Off® water based cleaner or denatured alcohol.
Other features: Waterproof when cured, VOC compliant, nonflammable, freeze/thaw stable to 10° F (-12.22° C).

CAUTION:

DO NOT take internally. If swallowed, DO NOT induce vomiting. Call a physician immediately. KEEP OUT OF REACH OF CHILDREN.

WARRANTY INFORMATION:

This product is manufactured according to exacting quality control standards and is warranted to be free from manufacturing defects. Defective material called to our attention within one year of manufacture will be replaced. No guarantee, expressed or implied, is made regarding the performance of this product since the manner and conditions of application are beyond our control.

