

TEK ONE™

TRANSITIONAL PRESSURE SENSITIVE ADHESIVE

TEKNOFLOR®

PRODUCT DATA SHEET

REVISED FEBRUARY 2024

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Disclaimer: It is the user's responsibility to review and determine the suitability of this information and product for their intended purpose. The manufacturer is not responsible for the misuse of this product. This Product Data Sheet and the information conveyed herein supersede all previous versions.

TEK ONE™ TRANSITIONAL PRESSURE SENSITIVE ADHESIVE

Specially formulated for use with Teknoflor® flooring products (except for CS Sheet, CS Tile, and LT Plank) and TUF STUF™. TEK ONE™ is a solvent free easy troweling advanced resin based transitional pressure sensitive adhesive featuring aggressive peel and shear strength.

SUITABLE SUBSTRATES

Properly prepared double-layer wood substrates with a minimum of 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 vinyl sheet goods, radiant heated substrates where surface temperatures do not exceed 85°F (29°C), as well as above-grade, on-grade, and below-grade concrete. All substrates must be compliant with the most current version of ASTM F710 and ASTM F1482.

Naturescapes, Natures Tile, and Natures Plank flooring shall only be installed via wet-set installation direct to a properly prepared porous substrate and not over existing flooring.

TEK ONE is not for use:

- Over substrates with hydrostatic pressure.
- Over substrates with visible surface moisture.
- With Teknoflor CS
- With Teknoflor CS Tile and LT Plank

SUBSTRATE MOISTURE LIMITS

CONCRETE: 90.0% RH (ASTM F2170) and or 8.0 lbs. MVER (Moisture Vapor Emissions Rate) (ASTM F1869).
WOOD: Wood substrate moisture content should read less than 14% when checked with a reputable pin or pinless moisture meter with material specific settings. Underlayment panels should be properly stored within the project space. Prior to installation, the wood panels shall be fully acclimated to occupancy-conditions and have reached equilibrium moisture content (EMC).

SUBSTRATE PREPARATION

Always perform a bond test prior to installation. All substrates must be structurally sound, well fastened, free of excess deflection, clean, flat, smooth, dry, and free of any deleterious contaminants that may stain the flooring or interfere with a proper bond. Concrete must be fully cured, meet specified moisture limits, and shall be free of curing compounds, sealers, adhesive abatement chemicals, and any other additives or treatments that may reduce bond. Use a high quality suitable 3,500 psi portland cement or calcium aluminate preparation material in accordance with the manufacturers' instructions. Follow the current product instructions for preparation and installation over specific substrates. It is the responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation.

SURFACE POROSITY (ABSORBANCY)

Always test the substrate for absorbency. Determining the surface porosity may be established by placing a ¼ inch size drop of potable water onto a properly cleaned substrate using a dropper or pipette from a height no greater than ½ inch. If the droplet of water is absorbed within 1 minute the surface is likely considered porous/absorbent. If the drop of water is still beaded after 1 minute, the surface is likely considered non-porous/non-absorbent. Testing must be done in compliance with the most current version of ASTM F3191.

APPLICATION

Confirm the structure's HVAC system is adequate and fully operational. The flooring material, ancillary products, project-area, and the substrate must be acclimated for as long as necessary to reach occupancy/service conditions. The area must be between 65°F to 85°F (18°C to 29°C) at a relative humidity of 35% to 65% RH before, during, and after installation. Always follow the Teknoflor Installation Guidelines.

POROUS SUBSTRATES (Absorbent)

WET SET: Apply adhesive with the appropriate trowel and allow to flash off for 10-20 minutes before installing flooring. Lay tile, plank, or sheet goods into wet adhesive according to flooring manufacturer's instructions to achieve 100% adhesive transfer to the back of the flooring. Wet-set installation achieves the strongest bond strength and is the preferred installation method.

Attention: Wet set installation and a porous substrate is required for Naturescapes and Natures Tile/Plank.

SEMI-WET SET: Apply adhesive with the appropriate trowel and let dry until clear in the valleys (about 15-30 minutes) while still transferring a ridge of adhesive when lightly touched. Install flooring according to flooring manufacturer's instructions within 30-50 minutes. Achieve a minimum of 80% adhesive transfer to the back of the flooring. Frequently check the back of the flooring during installation to ensure sufficient adhesive coverage.

NON-POROUS SUBSTRATES (Non-absorbent)

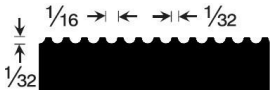
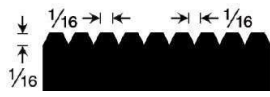
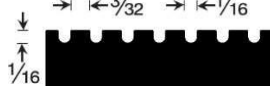
DRY-TO-TOUCH: Apply adhesive with the appropriate trowel and allow to flash off until dry-to-touch (about 30-40 minutes). Install the tile, plank, or sheet flooring according to the flooring manufacturer's instructions within 30-50 minutes. The highly aggressive pressure sensitive grip prevents slippage and minimizes seam gaps. Achieve 50% adhesive transfer to the back of the flooring. Frequently check the back of the flooring during installation to ensure sufficient adhesive coverage. Installation too soon or too late over wet or semiwet adhesive over a non-porous substrate can result in bond failure or adhesive displacement. Attention: Naturescapes Sheet material, Nature's Tile, and Nature's Plank shall only be installed over porous substrates and not over non-porous substrates including existing tile or sheet flooring.

ROLLING THE FLOOR: Roll the flooring cross-directionally immediately after placement into the adhesive using a 100 lb. three section roller to ensure transfer of the adhesive to the back of the flooring. Re-roll the floor after 3-hours.

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Type of Installation	Trowel Size* and Notch	Coverage
LVT TILE/PLANK NON-POROUS SHEET MATERIAL POROUS & NON-POROUS	1/16" x 1/32" x 1/32" U-Notch 1.6mm x 0.8mm x 0.8mm Gundlach – FFA 	Up to 240 sq. ft/gallon Up to 27 sq. yd/gallon
LVT TILE & PLANK POROUS	1/16" x 1/16" x 1/16" V-Notch 1.6mm x 1.6mm x 1.6mm Gundlach - ACT 	Up to 170 sq. ft/gallon Up to 19 sq. yd/gallon
NATURES TILE & PLANK POROUS ONLY	1/16" x 1/16" x 3/32" U-Notch 1.6mm x 1.6mm x 2.4mm Gundlach – AVF 	Up to 140 sq. ft/gallon Up to 16 sq. yd/gallon

*Trowel dimensions are notch width x notch depth x notch spacing. Coverage is approximate and may vary depending on porosity of substrate, surface smoothness and the angle at which the trowel is held.

MAKE CERTAIN THE TROWEL APPLICATOR IS NEW, UNWORN, AND APPLYING THE PROPER AMOUNT OF ADHESIVE.

CURING TIME AFTER INSTALLATION

Always wait a minimum of 3 hours before light foot traffic or covering the flooring. Full traffic may occur after a minimum of 24 hours when installed dry-to-touch, a minimum of 24-48 hours when installed semi-wet set, and a minimum of 48-72 hours when installed using wet set. Premature traffic can cause indentations, gapping, movement, and other installation issues.

PHYSICAL PROPERTIES

Base: Acrylate Dispersion
 Appearance: Smooth, creamy, easy to trowel. White to off-white in color.
 Flash Time: Approximately 5-40 minutes
 Working Time: Up to 50 minutes at the recommended temperature and humidity.
 Total Open Time: Up to 90 minutes at the recommended temperature and humidity.
 Shelf Life: One year in unopened container at 70° F (21° C).
 VOC Content: 0 g/l when tested in accordance with SCAQMD Rule 1168.
 Clean up: WET - Clean cloth with warm water
 DRY - Clean cloth with denatured alcohol or acetone. Rinse with clean water after cleaning.
 Freeze-Thaw: Must be maintained above 40° F (5° C). Non freeze-thaw stable.
 LEED: May contribute to LEED points under EQ 4.1.
 Container Size: 3 Gallons
 Weight: 33 lbs.
 Place of manufacture: European Union
 Other features: Water resistant when cured, VOC-compliant, non-flammable. Made without antimicrobial agents as the adhesive does not promote fungal growth.

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.

FIRST AID: If swallowed, rinse out mouth and drink plenty of water. Do not induce vomiting. Call for medical help immediately. Never give anything by mouth to an unconscious person. If inhaled, remove to fresh air. If breathing is difficult, give oxygen. For eye contact, immediately remove contact lens and rinse with eyes wide open with plenty of water for several minutes. In case of skin contact, immediately wash skin with soap and plenty of water and rinse thoroughly. Do not use solvents or thinners. Remove contaminated clothing or shoes. Seek medical help if irritation occurs. Wash clothing before reuse.

24 HR EMERGENCY CONTACT: CHEMTREC 800.424.9300 CONTACT ID: CCN794556

FIRE FIGHTING: In case of fire use alcohol resistant foam, dry chemical, carbon dioxide, or water spray. Use self-contained breathing apparatus and full protective clothing.