

**PRODUCT DATA SHEET**

Rev: July 2021

**TEK ONE™ - TRANSITIONAL PRESSURE SENSITIVE ADHESIVE**

Specially formulated for use with Teknoflor® (except CS, CS Tile & LT) and TUF STUF™ flooring products. 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 subfloors with a minimum 1 inch total thickness using APA or other suitable ¼ inch or thicker underlayment grade plywood (ASTM F1482); terrazzo; ceramic; existing well adhered non-cushion vinyl tile and vinyl sheet goods; radiant heated subfloors where surface temperatures do not exceed 85° F (29° C); and above, on, or below grade concrete without hydrostatic pressure or excessive moisture (ASTM F710). Naturescapes, Natures Tile, Natures Plank flooring shall only be installed via wet-set installation direct to a properly prepared porous subfloor and not over existing flooring.

**SUBFLOOR MOISTURE LIMITS**

CONCRETE: 90.0% RH (ASTM F-2170) and or 8.0 lbs. MVER (Moisture Vapor Emissions Rate) (ASTM F-1869).

With TEK Max™: 99.0% RH and/or 18 lbs. MVER - 2 coats

WOOD: Readings between the subfloor / structural wood and underlayment panels must be within 2% of each other and normal and acceptable for your region of the country. If moisture test results exceed the acceptable levels for your region, apply a single coat of TEK Max to the underlayment.

**SUBSTRATE PREPARATION**

Always perform a bond test prior to installation.

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 (ASTM F710). Concrete must be fully cured and free of hydrostatic pressure or excessive moisture or out of spec surface 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 or grind flush high spots and fill low spots, crack and depressions.

Use 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. Follow the current installation guidelines for preparation of and installation over specific substrates. It is the sole responsibility of the installer/contractor to ensure the substrate is suitable and is properly prepared prior to installation.

**SURFACE POROSITY (ABSORBANCY)**

Determine the surface porosity by placing ¼ inch size drops of clean water on the surface of the floor using an eye dropper or straw. If the drops of water are absorbed into the surface within 1 minute the surface is considered Porous or Absorbent. If the drop of water is still beaded up after 1 minute, the surface is considered Non-Porous or Non-Absorbent.

**INSTALLATION**

The installation site must be acclimated with HVAC in operation for a minimum of 1 week and preferably 2-3 weeks before starting. The adhesive, floor covering and subfloor surface to receive flooring must be acclimated to within 3° F of each other between 65° to 85° F (18° to 29° C) at a relative humidity of 35% to 65% before during, and after installation. Frequently check the back of the flooring during installation to insure sufficient adhesive coverage. Follow the Teknoflor Installation Guidelines for detailed instructions.

**ABSORBENT SURFACES**

TEK One™ may be used either wet or tacky-set over porous surfaces. This is the preferred installation method. Naturescapes, Natures Tile & Natures Plank shall only be installed using the wet-set method.

**WET-SET:** Apply adhesive with the appropriate trowel and allow to flash off for 5-20 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.

**TACKY-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 insure sufficient adhesive coverage.

**NON-ABSORBENT SURFACES (VINYL FLOORING ONLY)**

This installation method requires constant attention from the installer to monitor the adhesive. Care must be taken to allow the adhesive to flash off until dry-to touch while at the same time maintaining sufficient adhesive coverage on the back of the flooring.

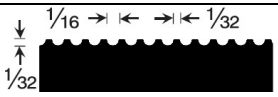
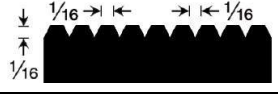
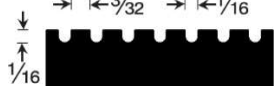
**DRY-TO-TOUCH:** Apply adhesive with the appropriate trowel and allow to flash off until dry-to-touch (about 30-40 minutes). Install the tile, plank or sheet flooring according to the flooring manufacturer's instructions within 30-50 minutes. The highly aggressive pressure sensitive grip prevents slippage and minimizes seam gaps. Achieve 50% adhesive transfer to the back of the flooring. Frequently check the back of the flooring during installation to insure sufficient adhesive coverage. Installation too soon over wet or tacky-set adhesive on a non-porous substrate or installation on adhesive that has flashed off or been open too long can result in installation issues.

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Roll the Floor: Immediately after installation, roll the flooring with a 100 lb. three section roller in both directions and hand roll the perimeter and seams to *ensure complete contact between adhesive and flooring and that all trowel ridges are completely flattened*. Reroll the floor after 1-hour.

### TEK ONE RECOMMENDED TROWELS AND COVERAGE RATE

Type of Installation	Trowel Size* and Notch	Coverage
Vinyl Tile / Plank / Sheet 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 260 sq. ft./gallon Up to 29 sq. yd./gallon
Naturescapes Sheet Porous ONLY Optional for Vinyl Tile & Plank	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 150 sq. ft./gallon Up to 17 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. **IT IS THE INSTALLERS RESPONSIBILITY TO APPLY THE PROPER AMOUNT OF ADHESIVE FOR THE JOB CONDITIONS.**

### CURING TIME AFTER INSTALLATION

Light foot traffic after 3 hours. Full Traffic after a Minimum of 24 Hours when installed Dry-to-Touch, a Minimum of 24-48 hours when installed Tacky-Set, and a Minimum of 48-72 Hours when installed Wet-Set. Premature traffic can cause indentations, gapping and 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.