TEK ONE™
TRANSITIONAL PRESSURE SENSITIVE ADHESIVE

PRODUCT DATA SHEET
Rev: February 2019

TEK ONE™ – TRANSITIONAL PRESSURE SENSITIVE ADHESIVE

Specially formulated for use with all Shannon Specialty Floors flooring products including Teknoflor®, TUF STUF™ and barenaked™ flooring (except LT). TEK One™ is an advanced resin based, cross-linking transitional pressure sensitive adhesive featuring high aggressive peel and shear strength. This solvent-free, nonflammable, easy troweling product provides excellent installations for Bio-Polyurethane, Vinyl or Ionomer based (PVC-Free except barenaked™ LT) products including tile, plank and sheet in either heterogeneous or homogeneous construction over both porous and non-porous surfaces. TEK One™ has low odor, develops quick tack and is very easy to use. With good water, alkali and plasticizer migration resistance, TEK One™ provides long term assurance for installing a variety of flooring products.

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; existing fully bonded terrazzo and ceramic tile; existing fully bonded 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 in the absence of hydrostatic pressure or excessive moisture.

SUBFLOOR MOISTURE LIMITS:

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<tr>
<th>CONCRETE</th>
<th>85.0% RH (ASTM F-2170) and or 5.0 lbs. MVER (Moisture Vapor Emissions Rate) (ASTM F-1869).</th>
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<tr>
<td>With TEK Max™</td>
<td>99.0% RH and/or 18 lbs. MVER - 2 coats</td>
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WOOD:
Readings between the subfloor / structural wood and underlayment panels must be within 2% and be less than 14% moisture content. Wood substrates must be checked with a calibrated pin moisture meter. If test results exceed limits, contact customer service at 800.522.9166 for further assistance.

SUBSTRATE PREPARATION (ASTM F710 & ASTM F1482):
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 or 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. Always perform a bond test prior to installation. Follow the current installation guidelines for preparation and installation over specific chemically abated substrates. It is the installers/general contractors responsibility to ensure the substrate is suitable and is properly prepared prior to installation.

INSTALLATION:
The installation site must be acclimated with HVAC in operation for a minimum of 3 days 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. The highly aggressive pressure sensitive grip prevents slippage and minimizes seam gaps. Achieve a minimum of 50% adhesive transfer to the back of the flooring.

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 completely absorbed into the surface within 1 minute the surface is considered to be Porous or absorbent. If the drop of water is still beaded up after 1 minute, the surface is considered to be non-Porous or non-absorbent.

ABSORBENT SURFACES: TEK One™ may be used either wet or tacky-set over porous surfaces.

WET-SET: Apply adhesive with the appropriate trowel and allow to flash off for 5-10 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 installations achieve the strongest bond strength and are the preferred installation method.

TACKY-SET: Apply adhesive with the appropriate trowel and let dry until clear in the valley (approximately 10-20 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: This installation method requires constant attention from the installer to monitor the adhesive and the working timing is less. Care must be taken to allow the adhesive to flash off sufficiently while at the same time maintaining sufficient adhesive coverage on the back of the flooring.

DRY-TO-TOUCH: Apply with the recommended trowel, allow to dry to touch (approximately 20-40 minutes), and lay in the tile, or 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 a minimum of 50% adhesive transfer to the back of the flooring.
Frequently check the back of the flooring during installation to insure sufficient adhesive coverage. Installation of adhesive that is too wet over a non-porous substrate can result in indentations occurring well beyond 72 hours cure time and may lead to bond failure.

Installation on adhesive that has flashed off or been open too long can result in adhesive ridges telegraphing and may lead to bond failure.

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.

### RECOMMENDED TROWELS AND COVERAGE RATE:

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<tr>
<th>Type of Installation</th>
<th>Trowel Size* and Notch</th>
<th>Coverage</th>
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| **Tile / Plank / Sheet**
| Porous & Non-Porous Smooth Substrate | 1/16” x 1/32” x 1/32” U 1.6mm x 0.8mm x 0.8mm U | Up to 260 sq. ft./gallon |
| **Tile / Plank / Sheet**
| Porous & Non-Porous Rough Substrate | 1/16” x 1/16” x 1/16” V 1.6mm x 1.6mm x 1.6mm V | Up to 170 sq. ft./gallon |

*Trowel dimensions are width x depth x 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 CONDITION.

### 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 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.