

TECHNICAL DATA SHEET:

SIGNATURE 3100 PREMIUM HIGH MOISTURE ADHESIVE

CARPET TILE & LVT

DESCRIPTION:

Signature 3100 Premium High Moisture Adhesive is a safe, 1-part chemistry makes it a faster, more install-friendly alternative to 2-part epoxy systems. Engineered for heavy rolling loads and challenging environments, Signature's 3100 Premium High Moisture Adhesive is a waterproof design forming a robust moisture vapor barrier for Carpet Tile and LVT; and can take the punishment introduced by topical liquids.

APPROVED SUBSTRATES & SURFACES:

- APA underlayment grade plywood and OSB
- Association grade particleboard
- Cement backer board
- Concrete and radiant heated subfloors that do not exceed 85°F (30°C)
- Existing well-bonded non-cushion-backed vinyl, tile and sheet flooring
- Fully secured cork underlays
- Gypsum and lightweight concrete sealed with an approved primer (primed with Taylor 2025 Universal Primer or Enhance®)
- Terrazzo (properly prepared with all waxes and surface finishes removed)

SUBSTRATE TESTING:

RH – No testing required (100%) [ASTM F2170]

pH – No testing required (5-14)

MVER – No testing required [ASTM F1899]

SUBSTRATE PREPARATION:

Follow flooring manufacturer's guidelines for allowable levels of moisture. Substrate must be prepared per ASTM F710 standards including, but not limited to the following

- Concrete floors must be dry, clean, smooth and structurally sound. They shall be free of any foreign materials that might prevent adhesive bond, including dust, dirt, solvent, paint, wax, oil, grease, residual adhesive, adhesive removers, incompatible sealers, fire-retardant chemicals, fungicides, release agents, alkaline salts, excessive carbonation, laitance, mold, mildew, and curing, sealing, hardening, or parting compounds.

- Fill all surface cracks, grooves, depressions, control joints, and non-moving joints with moisture-resistant patching and self-leveling compounds, allow to fully cure and correct high spots before applying adhesive.
- The substrate, adhesive and flooring must be acclimated in an enclosed building with the HVAC operational between 60-95°F (15-35°C), and between 30-65% relative humidity, for at least 72 hours before, during and after the installation.
- When installing over radiant heated subfloors, turn the heat off for 24 hours before, during and after installation. Failure to turn the heat off may result in shortened working time of the adhesive. When turning radiant heat back on, raise it incrementally, not to exceed a change of more than 5 degrees per hour to a maximum of 85°

PRECAUTIONARY RULES:

Concrete must be placed in strict accordance with applicable standards and specifications, must be fully cured (at least 45 days) and without hydrostatic pressure. When used as a concrete moisture vapor barrier, substrate must be porous per ASTM F3191.

APPLICATION INSTRUCTIONS:

Signature 3100 Premium High Moisture Adhesive may only be used as a wet-set adhesive. Follow flooring manufacturer's guidelines for layout, design, and any special precautions for installation

1. Spread adhesive using required tools (see tool chart below).
 - Adhesive ridges will dissipate, and Signature 3100 Premium High Moisture Adhesive does not require back-rolling under normal circumstances
2. Install flooring per the instructions below dependent upon desired application method
 - Carpet Tile and LVT Products
 - Wait 10 minutes after adhesive is spread to build surface tack and reduce movement.
 - Working time is approximately 45 min under acceptable temperature and humidity conditions.
 - Use a hand roller and apply normal pressure to ensure a good bond.
 - Periodically lift flooring material to verify proper transfer of adhesive.
3. Roll and cross roll floor with a 75-100 lbs (34-45 kg) roller at the end of the installation to ensure proper transfer of adhesive.
 - Wait a minimum of 1 hour, but no more than 2 hours, after the installation to roll and cross roll floor.

PRECAUTIONARY NOTES:

Do not wet mop the floor for 6 hours after the install is complete.

Do not strip and finish the floor for 6 hours after the install is complete.

Reseal lid when not in use to protect product.

REQUIRED TOOLS AND COVERAGE:

Flooring Type	Tool* (images not to scale)		Estimated Coverage
WPC	1/16" x 1/16" x 1/16"x (1.6 mm x 1.6 mm x 1.6 mm) Sq Notch		150-180 sf/gal
Carpet Tile and LVT	1/16" x 1/32" x 1/32"x (1.6 mm x 0.8 mm x 0.8 mm) U Notch		220-260 sf/gal

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

It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the proper amount of adhesive for the job conditions and ensure that all instructions, procedures and practices are strictly adhered to.

CLEANING INSTRUCTIONS:

While product is still wet: use a damp cloth and water to remove.

While product is still soft: use Taylor Touchdown #9 adhesive remover/stripper, denatured alcohol or mineral spirits. Always check compatibility on a piece of scrap flooring

PRODUCT CHARACTERISTICS	
Product Classification	Modified Urethane (isocyanate free)
Base Chemistry	STPE polymer-based (Hybrid Propel®)
Curing Method	Moisture cure
Appearance	Off white
Consistency	Smooth, low viscosity liquid
Application	Easy troweling
Flammability	Non-Flammable
Freeze/Thaw	Stable to 10°F (12°C)
Shelf Life	1 year
MOISTURE	
Moisture Control	Protects flooring against unlimited moisture
RH [ASTM F2170]	No testing required (100%)
pH	No resting required (5-14)

MVER [ASTM F1869]	No testing required
TIME	
Open Time	0 min (Sheet goods and stair treads); 10 min (Tile products)
Dry Time	N/A
Working Time	45 min
Cure Time	6 hrs
Pot Life	N/A
TRAFFIC	
Light Traffic	3 hrs
Heavy Traffic	4 hrs
Heavy Rolling Loads	8 hrs
SUSTAINABILITY	
Solvents	None
Isocyanates	None
VOC (g/L) – SCAQMD Rule#1168	0.1
LEED Points	Contributes to low emitting materials
Certifications	Greenguard, FloorScore, CRI Green Label Plus
ACOUSTICS	
IIC	68 dB
STC	66 dB

**IIC (delta) and STC (delta) ranges are flooring assembly specific based on third party testing and verification in a controlled environment. For any questions or further information, please contact Signature Flooring at 800-809-7086*

STORAGE:

This product should be stored at temperatures between 50-90°F (15-32° C). While this product is freeze-thaw stable, it is necessary to protect it from freezing. Freeze/thaw stable to 10°F (-12°C).

CAUTION:

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

CAUTION:

For warranty information, call Technical Services at (800) 809-7086 Ext 5104 web at www.signatureflooring.com. Flooring manufacturer's written pre-installation and installation instructions must be strictly followed or Signature Flooring Warranty will be void.