

ST-100 Vinyl Plank & Tile Adhesive PRODUCT DATA SHEET

PRODUCT NAME

Earthwerks® ST-100 Vinyl Plank & Tile Adhesive

MANUFACTURED FOR

Swift-Train Company
Corpus Christi, TX 78405
(361) 883-1706

Emergency Phone: (800) 535-5053

DESCRIPTION

Earthwerks ST-100 Vinyl Plank & Tile Adhesive is an acrylic pressure sensitive adhesive, specifically formulated with advanced acrylic cross-linking polymers for enhanced peel and shear strengths to prevent slippage and minimize gapping. This adhesive is highly resistant to plasticizer migration and can withstand moisture levels up to 90% RH. The ST-100 allows for either a releasable or permanent bond (installed while adhesive is still wet).

Features and Benefits

- Withstands moisture levels up to 90% RH (ASTM F2170)
- CRI Green Label Plus® Certified – GLP# 53107
- Persistent tack and high peel / shear strengths
- Good plasticizer migration resistance
- Non-flammable and VOC-compliant
- Water resistant when cured
- Contains antimicrobial agents for added protection

Uses

For the interior installation of solid vinyl planks, solid vinyl tile, fiberglass vinyl sheet goods, recycled non-foam (PVC) and Enhancer® backed carpet tiles.

Coverage and Trowel Options

Porous: 1/16 x 1/16 x 1/16 Square-Notch (.080 gauge or higher)
17-18 yd² per gallon / 150-160 ft² per gallon

Non-Porous: 1/16 x 1/32 x 1/32 U-Notch (up to .080 gauge)
18-19 yd² per gallon / 160-170 ft² per gallon

Substrates

For use over properly prepared concrete above-, on-, and below-grade, APA underlayment-grade plywood, latex-Portland cement underlayment, sealed gypsum cement underlayment, terrazzo, VCT, felt-backed non-cushioned vinyl sheet goods. Do not use over existing cutback.

TECHNICAL DATA

Product Type:	Acrylic Latex PSA
Color:	Off-white
Odor:	Slight acrylic
Flash Time:	Up to 15 minutes
Open Time:	Up to 15 minutes (Permanent/Wet Lay Method) Up to 60 minutes (Releasable/Dry Lay Method)
Working Time:	Up to 3 hours (depending on temperature and humidity)
Tack Time:	Up to 60 minutes
VOC:	10 g/L
RH:	90% RH or less (ASTM F2170)
pH:	Must not exceed 9.0
Shelf Life:	One year in unopened container
Storage:	Protect from freezing. Store in a cool, dry place (50–90°F).

INSTRUCTIONS

Preparation

Ensure substrate, unwrapped flooring and adhesive are fully acclimated prior to installation (typically 24 hours) at the same temperature and humidity level expected during normal use (between 65–95°F with a relative humidity (RH) of no greater than 65%).

Conduct moisture test using the ASTM F1869 test method with levels not to exceed RH levels not to exceed 90%.

Check porosity of the substrate by pouring small amount of water in several areas. If the water beads up, the subfloor is very dense or sealed and relatively non-absorbent. Perform an alkalinity test by dampening several areas with distilled water. Let stand for 5 minutes and check with pH paper, 6.0–9.0 is acceptable.

The subfloor must be free of paint, old adhesives, curing agents, parting compounds, oil, grease, wax, and any other contaminant to inhibit the bond of the adhesive.

Ensure the substrate is sound, smooth, level, and free of depressions. Fill any depressions or cracks with a Portland-based cement and allow it to fully cure.

Installation – Non-Porous Substrate

Spread adhesive leaving trowel ridges high enough to provide 100% transfer. Apply only as much adhesive as can be installed within one hour. Allow adhesive to flash (approximately 10-15 minutes). To check, press finger in adhesive and if adhesive transfers to finger, it is not ready. Allow adhesive to dry until the adhesive does not transfer and then set floor as per the manufacturer’s instructions. It is critical that adhesive is cured over non-porous substrates. Never lay plank into wet adhesive. Never allow adhesive to skin over.

Roll and cross roll with 100 lb. three section roller.

Curing

High temperature and low humidity will cause the adhesive to cure faster.

Restrict foot traffic and moving of heavy objects for 24-48 hours to allow adhesive to cure properly. Premature traffic can cause installation failure.

Clean Up

Clean wet adhesive and tools with white cloth and soap and water.

AVAILABILITY

<u>Packaging*</u>	<u>Weight</u>
4 gallon pail	34 lbs
48 pails per pallet	1,696 lbs
22 pallets per trailer	37,312 lbs
1 gallon pail (4/case)	36 lbs
144 pails per pallet	1,352 lbs
22 pallets per trailer	29,744 lbs

**Standard non refrigerated trailer. Do not stack pallets.*

WARRANTY

Manufacturer/Seller warrants this product will be free from manufacturing defects according to exact quality standards. All defective materials will be replaced for defective material brought to our attention within one year. Since the manner and conditions of application are out of our control, no guarantees are expressed or implied.