

APPROVED FLOORING TYPES

RESILIENT: Linoleum, **Modular** (LVP, LVT, rigid core [dryback], SVT, VCT, VET, woven), **Rubber** (crumb, sheet, tile), **Sheet** (fiberglass, heterogeneous, homogeneous, woven), **Stair Treads** (rubber, vinyl) **CARPET: Broadloom** (6-ft vinyl-backed) **WOOD: Cork** (cork-backed hard surface, underlayment)

APPROVED SUBSTRATES & SURFACES

- APA underlayment grade plywood and OSB
- Association grade particleboard
- Cementitious and anhydrite screeds
- 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 underlayments
- Gypsum and lightweight concrete (primed with a universal primer)
- Terrazzo (properly prepared with all waxes and surface finishes removed)

SUBSTRATE TESTING

RH - 99% [ASTM F2170]

pH - 5-12 [ASTM F710]

MVER - 12 lbs [ASTM F1869]

PRECAUTIONARY NOTE:

- This product does not form a moisture vapor barrier and will not protect flooring from moisture damage. *Happy Feet International, Inc. is not responsible for failures caused by significant plasticizer migration from flooring, contamination or substrates.*

SUBSTRATE & SURFACE 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, contaminants from sweeping compounds, 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 at service temperature, between 60-95°F (15-35°C), and between 30-65% relative humidity, for at least 72 hours prior to, during, and permanently after 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°F (29°C).

PRECAUTIONARY NOTES:

- Concrete must be placed in strict accordance with applicable standards and specifications. An intact moisture vapor retarder must be present below the concrete (see ASTM E1745), must be fully cured (at least 45 days), without hydrostatic pressure, without pressurized liquid from any source, and free of surface alkaline salt crystallization.
- Flooring must be acclimated per manufacturer's guidelines.

APPLICATION INSTRUCTIONS*

Follow flooring manufacturer's guidelines for layout, design and any special precautions for installation.

1. Spread adhesive using required tools.
2. Install flooring per instructions below dependent upon desired application (flash and working times dependent upon temperature and humidity).
 - **Dry-set, PSA** (porous and non-porous substrates)
 - Wait 30-60 minutes after adhesive is spread to allow flash off. Adhesive will darken to visually cue installer.
 - Working time ~3 hours.
 - **Semi-wet set** (porous substrates only)
 - Wait 20-30 minutes after adhesive is spread to allow it to skin over.
 - Working time 20-30 minutes.

- For sheet vinyl, back-roll adhesive with adhesive saturated roller to smooth out trowel ridges.
- 3. Roll and cross roll floor with 75-100 lb roller at the end of the installation to ensure proper adhesive transfer.
 - Sheet goods - roll from center toward perimeter to expel trapped air.
 - Check flooring after 2 hours and roll again if necessary.




*Please reference wet set - semi wet - dry set adhesives technical bulletin for detailed instruction.

PRECAUTIONARY NOTES:

- Although this is a high-moisture tolerant adhesive, it does not form a moisture vapor barrier and will not protect flooring from moisture damage.
- Wait 24 hours before heat welding sheet goods.
- Wait 72 hours before wet mopping, stripping/finishing the floor.
- Reseal lid when not in use to protect product.

REQUIRED TOOLS AND COVERAGE

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

FLOORING TYPES	TOOL* (IMAGES NOT TO SCALE)		ESTIMATED COVERAGE
BOND ONLY			
RESILIENT: Modular (LVP/LVT [non-porous], SVT, VCT, VET), Sheet (heterogeneous/homogeneous/woven [non-porous]), Stair Treads (rubber, vinyl) CARPET: Broadloom (6-ft vinyl-backed) WOOD: Cork (cork-backed hard surface, underlayment)	1/16" x 1/32" x 1/32" U Notch		220-260 ft ² /gal
RESILIENT: Linoleum, Modular (LVP/LVT [porous], rigid core [dryback], woven), Rubber (crumb, sheet tile), Sheet (heterogeneous/homogeneous/woven [porous]), Stair Treads (rubber, vinyl) CARPET: Broadloom (6-ft vinyl-backed) WOOD: Cork (cork-backed hard surface, underlayment)	1/16" x 1/16" x 1/16" Sq Notch		150-180 ft ² /gal
RESILIENT: Sheet (fiberglass)	3/8" Short Nap Paint Roller		Up to 350 ft ² /gal

*It is the sole responsibility of the contractor/installer to determine the proper porosity of the subfloor, apply the correct 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 denatured alcohol, mineral spirits, or an adhesive remover/stripper. Always check compatibility on a piece of scrap flooring.

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.

WARRANTY INFORMATION

For warranty information, call Technical Services at **706-937-2500**, visit us on the web at **happyfeetinternational.com**. Flooring manufacturer's and Happy Feet International's written pre-installation and installation instructions must be strictly followed or the warranty will be void.

HF9100 PRODUCT INFORMATION		
PRODUCT CHARACTERISTICS	Product Classification	Hard-Set, Transitional Pressure Sensitive® Adhesive
	Base Chemistry	Hybrid acrylic
	Curing Method	Proprietary cross-linking
	Appearance/Color	Light tan (wet), dark, translucent tan (dry)
	Odor	Extremely low
	Consistency	Smooth, medium viscosity liquid
	Application	Easy troweling
	Flammability	Non-flammable
	Freeze/Thaw	Stable to 10°F (-12°C) [3 cycles]
	Shelf Life [Unopened Container at 70°F]	2 years
TESTING	Moisture Control	No
	RH [ASTM F2170]	99%
	pH	5-12
	MVER [ASTM F1869]	12 lbs
	Porosity [ASTM F3191]	N/A
TIME	Open Time	20-30 min (semi-wet-set)
	Flash Time	30-60 min (PSA)
	Working Time	20-30 min (Semi-wet-set); 3 hrs (PSA)
	Cure Time	12 hrs
	Pot Life	N/A
TRAFFIC	Light Traffic	0 min (PSA), 12 hrs (Semi-wet-set)
	Heavy Traffic	24 hrs
	Rolling Loads	48 hrs
ACOUSTICS*	STC	No
	IIC	No
	Delta IIC	No
SUSTAINABILITY	Solvents	No
	Isocyanates	No
	VOC Wet Applied [g/L] [SCAQMD Rule #1168]	< 14 g/L
	Bio-Based Content	Yes
	Post-Consumer Recycled Content	Yes
	Mineral Abundant Content	Yes
LEED v4/4.1 Points	Contributes to low emitting materials	
WARRANTY**	Coverage	Bond

*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 technical services at 706-937-2500.

**For warranty information, view Product Warranty Certificate.