

CHEM LINK

Construction & Maintenance

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Product Description

FloorSecure provides contractors with a solvent free, odorless, adhesive without sacrificing performance. **FloorSecure** has a unique, isocyanate free formula that offers easy installation of wood and laminated substrates. **FloorSecure** is safe for occupied buildings such as schools, hospitals, or food processing plant, where solvent vapors and odors are not tolerated. **FloorSecure** will not shrink ensuring maximum coverage per unit. Unlike most solvent based adhesives which require flashing of solvent and maintain a strong odor long after application, **FloorSecure** contains very low VOC's and is environmentally compliant throughout the United States. **FloorSecure** is OSHA compliant and eliminates chronic exposure hazards associated with conventional solvent release adhesives. It contains no carcinogen or mutagen.



Regulatory Compliance

- Conforms to OTC Rule for Sealants
- Meets requirements of California Regs: CARB, BAAQMD and SCAQMD
- This product does not contain cancer causing chemicals listed in California Proposition 65
- Conforms to USDA Requirements for Non-food Contact

Advantages

- Solvent free, 100% solids will not shrink
- Single component, easy to apply and spread
- No outgassing on damp surfaces
- Superior adhesion to many substrates
- Low VOC, Low Odor

Green Standards:

- LEED 2.2 for New Construction and Major Renovations: Low Emitting Materials (Section 4.1) 1 Point
- NAHB Model Green Home Building Guidelines: 5 Global Impact Points
- VOC Content: less than 19 grams / liter ASTM D2369 EPA Method 24 (tested at 240°F / 115°C)

Color

- Light Tan

Packaging

- 3.5 gallon pails
36 pails/pallet
- 2 and 5 gallon pails or 50 gallon drums
available by special order

Basic Uses
Solid Hardwood Flooring
Engineered Flooring
Bamboo
Cork
Plywood
Ceramic Tile
Marble
Stone

*** Test and evaluate to ensure adequate adhesion**

Direction For Use

Read and understand the **FloorSecure** data sheet completely before beginning installation. Follow flooring manufacturer's guidelines for design, layout and special instructions for installation. Prior to installation, test a small piece of flooring to ensure adequate adhesion and compatibility.

Subfloor Preparation

Remove all dirt, oil, loose paint, old adhesive, wax, sealers, curing agents, and other contamination from all working surfaces by general abrading. When sandblasting, shot blasting or scarifying, surface texture must be similar to light broom finish concrete. Maximum acceptable floor variation is 3/16" for a 10 ft length. For surface areas requiring patching or leveling must be done using portland based cementitious patching material. All loose material must be vacuumed from the surface before application. Maintain **FloorSecure** at room temperature before applying to ensure easy troweling and leveling. Test and evaluate to ensure adequate adhesion.

Typical Physical Properties		
Grade	Semi - Slump	
Density	11.4 +/- 0.2 lbs per gallon	ASTM D1475
Viscosity	175,000 cp +/- 50,000 cp	Brookfield RVF TF Spindle, 20 RPM, 73°F (23°C)
Tack Free Time	60 +/- 20 min	45 +/- 5 % R.H.
Elongation at Break	300 +/- 50%	ASTM D412
Hardness Shore A	33 +/- 3	ASTM C661
Shear Strength	75 +/- 5 psi	ASTM D1002
Tensile Strength	80-100 psi	ASTM D412
Low temp. flex	Pass -15°F (-26°C) 1/4 inch mandrel	ASTM D522
Shrinkage	No visible shrinkage after 14 days	
Service Temperature	-40°F to 200°F (-40°C to 93°C)	

Subfloor Moisture Check

Prior to the installation of FloorSecure on a concrete subfloor, **CHEM LINK** recommends that a calcium chloride test be performed to check for moisture pressure. When performing this application, it is recommended that several location on the substrate are to be tested. The concrete subfloor is not to exceed 15 lbs./1000 sq. ft./24 hours per calcium chloride Test (ASTM F1869) or 85% relative humidity when tested with an in situ probe (ASTM F2170).

For installations on wood substrates, acceptable conditions are moisture readings less than 12% when using a Tramex, Delmhorst or equivalent wood moisture meter.

Priming

In most instances **FloorSecure** will not require a primer. However, certain applications or substrates may require a primer to ensure a long lasting bond and weatherproof seal. It is the applicator's responsibility to determine the need for a primer.

Installation

Begin installation by securing a starter row to the subfloor. The starter row provides a stationary point to push against and prevent flooring shift during installation

Once the starter row is secured, apply adhesive to substrate with the appropriate trowel (see trowel sizes per application on page 3). Spread the adhesive and begin to install the flooring immediately.

For "walk-on -work" installations, immediately clean any adhesive from pre-finished flooring with solvent. Be careful not to harm the finish of the flooring. Buff the flooring with a dry rag or paper towel. If required, after a few rows have been installed, secure the flooring boards with removable tape to prevent sliding. Flooring that is not flat should be tacked, weighted, or rolled to ensure proper contact between the flooring and substrate. Rolling is recommended for all installations with a 150 lb. roller within 30 minutes of application.

Curing

FloorSecure typically has a 20-30 working time. Light foot traffic is allowable in 2-4 hours and normal traffic in 24 hours. Lower temperatures and low humidity lengthen the cure time. High temperatures and humidity accelerate the cure time.

Clean-Up

Wet sealant can be removed using a solvent such as alcohol. Cured **FloorSecure** can be removed by abrading or scraping the substrate.

Trowel sizes below will provide approximately the listed adhesive coverage. The coverage required for laminated plank is 80%, and for solid woods, 95%. Periodically, evaluate subfloor during the installation. If subfloor is uneven, use a portland based cementitious leveling or patching material prior to installation. Low application temperatures will decrease spreadability and adhesive coverage. If insufficient adhesive coverage occurs, apply additional **FloorSecure**.

Material Being Adhered	Trowel Size	Coverage
Tile & Heavy Pavers	1/4" x 1/4" x 3/8" Square-Notch	Approximately 40 sq ft per gallon
Thin guage solid wood and plank flooring less than 7/16" thick	3/16" x 1/4" x 1/2" V-Notch	Approximately 80 sq ft per gallon
Solid wood & Engineered wood greater than 7/16" thick	3/16" x 1/4" x 5/16" V-Notch	Approximately 60 sq ft per gallon
All parquets less than 3/4" thick	1/8" x 1/8" x 1/8" Square-Notch	Approximately 80 sq ft per gallon

*Clean trowel often with isopropyl alcohol to prevent build-up.

Plywood Over Concrete

- 5/8" CD exposure 1 plywood subfloor panels
Cut sheets into 4' x 4' sections
- Score the back of the panels half the thickness
Using a 12" x 12" grid to relieve stress in the panel
- Use a 1/4" x 1/4" square-notch trowel to apply adhesive to concrete
- Lay panels in a staggered joint pattern with 1/8" spacing between panels and minimum 3/4" gap at walls and vertical obstructions.
- Add weight to ensure adequate adhesion
- Allow adhesive to cure for 24 hours under normal working conditions.

Limitations

- Allow treated wood to "cure" for six months prior to application per APA guidelines.
- Do not store in elevated temperatures.
- Remove all coatings and sealers before application.
- Do not apply at temperatures below 40°F (4°C).

Caution

Avoid prolonged contact with skin. Uncured adhesive irritates eyes. In case of contact with eyes immediately flush with water. Call a physician. Please refer to the SDS for first aid information.

See www.chemlink.com for most current SDS .
KEEP OUT OF REACH OF CHILDREN.

Storage

Store original, unopened containers in a cool, dry area. Protect unopened containers from water, heat and direct sunlight. Elevated temperatures will reduce shelf life. **FloorSecure** will not freeze.

Shelf Life

Pails have a shelf life of six months from date of manufacture when stored at 70°F / 21°C with 50% relative humidity. High temperature and high relative humidity may significantly reduce shelf life.



All properties described in this document are derived from testing conducted in laboratory conditions. Properties and performance will vary depending on environmental conditions and application technique. Test and evaluate to determine appropriate usage. Visit www.chemlink.com for the Safety Data Sheet, Technical Data Guides and full warranty for this product.

LIMITED WARRANTY: **CHEM LINK** warrants this product's performance, provided it is properly stored and applied within 1 year. If this **CHEM LINK** material is proved to be defective, return remaining product and purchase receipt for refund or replacement of product exclusive of labor or cost of labor. This is the sole and exclusive remedy for defects or failure of this product. User must read and follow the direction of the current Technical Data Guide and SDS prior to product use. User determines suitability of product for intended use and assumes all risks. Manufacturer shall not be liable for damages (including consequential or incidental damages) in excess of the purchase price, except where such exclusion or limitation is prohibited by state law. THIS WARRANTY IS IN LIEU OF ALL OTHER WARRANTIES, WRITTEN OR ORAL, STATUTORY, EXPRESS OR IMPLIED INCLUDING ANY WARRANTY OF MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE; except for the above express warranty given by manufacturer, the product is sold with all faults. **CHEM LINK** SHALL NOT BE RESPONSIBLE FOR THE USE OF THIS PRODUCT IN A MANNER TO INFRINGE ON ANY PATENT OR ANY OTHER INTELLECTUAL PROPERTY RIGHTS HELD BY OTHERS. This warranty gives you specific legal rights, and you may also have other rights in the U.S. which vary from state to state. For warranty claim information, call 800-826-1681.