



PowerGrip™

WOOD

ENG PLANK
MOISTURE CURE

Product Information

Product Description

PowerGrip is the latest in silane-modified urethane technology offering a new standard in moisture resistance to 8lbs/1000sf/24hr, pH 10.0 and in-situ relative humidity of 85% when properly applied.

PowerGrip is non-flammable, low VOC, high solids, moisture cure urethane that has been end-capped with an organo-modified silane to impart exceptional moisture resistance. Once cured, the elastomeric properties provide a tough, flexible, tenacious bond to a variety of surfaces.

This uniquely formulated adhesive is not affected by exposures to moisture, indeed requires ambient humidity in order to develop full cure.

PowerGrip will reduce MVER by 30-40% and provide a moisture resistant vapor retarder between the concrete and wood substrate. This property aids in protecting the wood flooring from subsurface moisture.

Surface Preparation

All subfloors must be level, firm, dry, smooth and free of dust, dirt, wax, cut-back, paint, grease, oil, curing agents, mold, bond breakers, residual alkaline salts, densifiers, hardeners or any other foreign material that would inhibit bonding. Use only mechanical or physical methods to clean existing subfloor. Do not acid etch or use any other chemical to clean concrete substrate. Fill cracks, holes, and depressions using a quality Portland cementitious compound, preferably acrylic modified. Roughen glossy surfaces or flooring with urethane wear layers.

Concrete floors must be free of excessive moisture and alkalinity. It is necessary that an independent series of moisture evaluations be conducted prior to installation per ASTM F1869, F710 and F2170 respectively, to determine vapor emission rate in order to satisfy warranty requirements. Consult technical advise prior to installation if the resulting vapor emission tests are above 8.0 lbs/1000sf/24hr and/or pH above 10.0 and/or in-situ relative humidity exceeds 85%.

For installations on wood substrate it is important to measure both the subfloor (plywood) and the flooring material. Moisture readings between the two materials must be within 4% and not exceed 14%.

The installation area should be acclimated to at least 60° F for 24 hrs prior, during and 72 hrs following the installation procedure. Do not install if temperature exceeds 80° F.

The concrete MUST be porous in order to facilitate bonding with adhesive. Fill cracks, holes, and depressions using a quality Portland cementitious compound, preferably acrylic modified. DO NOT OVER WATER SKIM COAT, absorption of adhesive and loss of bond will result due to excessive porosity. Warranty will void.

To insure porosity it is recommended that the floor be shot blasted. The steel shot should not exceed #230 mesh. Aggressive shot blasting may require a cementitious skim coat and sanding prior to adhesive application.

Chemical & Physical Properties

Base:	Modified Urethane
Color:	Light Gold
Solids:	>80%
Density:	9.7lbs/gal
Flammability:	Nonflammable
VOC:	0g/l, calculated
Application:	See Instructions
Shelf Life:	6Mos*

*From date of manufacture and stored in original, sealed container

Limitations

- ◆ This product will not prevent moisture related damage to wood flooring installations.
- ◆ The higher the ambient humidity the faster the cure.
- ◆ Slab temperature should always be between 50F - 100F during installation.
- ◆ Do not use wet, contaminated, or friable substrates.
- ◆ For warranty consideration below grade installations are limited to engineered plank and foam divided parquet.
- ◆ Do not use as a leveling material.

Application

Acclimate all materials prior to beginning the installation process. Due to varying subfloor conditions it is always recommended that an adhesion test be performed prior to the installation process. All of the following information regarding trowel notch size is suggested only as a guideline. It is the responsibility of the flooring contractor after consulting with the flooring manufacturer to make the final determination on the correct notch size of the trowel.

Note: PowerGrip should always be troweled.

Curing

Cure suitable for light traffic:	10hrs
Set time:	30min

Clean-Up & Storage

Store in a clean, dry, warm area to ensure ease of application. Shelf life is one year from the date of manufacture. Reseal partial containers by covering the open pail with two pieces of plastic drop cloth, securing lid and carefully turning the pail up-side down. To reopen turn the pail right-side up, remove lid and cut plastic liner out with cured adhesive attached. Uncured material is suitable for use.

NOTE: PowerGrip is solvent resistant when cured. Contaminated surfaces can not be cleaned with conventional solvent or soapy water. Call Customer Service if contamination results.

Trowel Performance Data



1/8" x 1/8" sq-notch trowel = 80sq/gal

Packaging

PowerGrip is available in 4.25gal pails. Customer Service at 714-429-9804.

Warranty

Formulators warrants PowerGrip free from defects in material and workmanship for a period of ten (10) years when properly installed, and not to delaminate due to moisture levels not to exceed 8.0lbs/1000sf per 24hrs, pH 10.0 and in-situ relative humidity of 85%, (shelf life limited to one year from date of manufacture, stored in an unopened container at 70°F), certified by an independent series of moisture tests in accordance with ASTM F1869, F710 and F2170 respectively and documented prior to installation.

Formulators excludes and will not pay consequential or incidental damages under this warranty. All remedies shall extend to the replacement of finished flooring materials and adhesive in affected areas only and as determined by Formulators. Formulators will not pay damages resulting from poor installation, loss of bond due to the dimensional characteristics of the flooring material, telegraphing of trowel marks through the flooring material, improper trowel selection, discoloration due to moisture, topically applied alkaline preparations, seam failures or voids, tears, rips, misapplied or residual curing compounds, residual mold release, leveling or patching compounds of any kind, improper preparation technique and any other condition beyond the control of Formulators and unrelated to the integrity of the adhesive.

The suitability of this product for an intended use shall be solely the users responsibility. Formulators makes no warranty of merchantability or fitness for a particular application, installation or purpose. No other warranty is expressed or implied.

For complete warranty information, see Formulators Performance Warranty.

