

DESCRIPTION

Green Earth is an advanced urethane adhesive containing 100% solids. It is formulated for the interior installation of all types of wood flooring, including solid wood, engineered wood up to 3/4" thick and bamboo flooring. When applied with the enclosed trowel clips, *Green Earth* adhesive will provide complete moisture vapor emission control and crack suppression of up to 1/8" in width.

FEATURES AND BENEFITS

Moisture barrier, sound reduction and bonding system in a single product. 100%-solids; no solvent added.

Utilizes rapidly renewable raw materials.

Low-odor formula with negligible VOC content.

Clip-on trowel attachments are inside the lid.

- May be used below grade with engineered wood.

INDUSTRY STANDARDS AND APPROVALS

<u>LEED Points Contribution</u>	<u>LEED Points</u>
MR Credit 5, Regional Materials**	Up to 2 points
MR Credit 6, Rapidly Renewable Materials	1 Point
IEQ Credit 4.1, Low-Emitting Materials - Adhesives & Sealants	1 Point **

***Using this product may help contribute to LEED certification of projects in the categories shown above. Points are awarded based on contributions of all project materials.*

LIMITATIONS

- Do not install over any substrates containing asbestos.
- For interior installations only.
- Do not apply over any adhesive residues including cutback adhesive.
- Not recommended for flooring designed for nail-down installations only
- Not recommended for prefinished cork flooring.
- Install flooring only in areas recommended by the wood-flooring or bamboo manufacturer.
- Green Earth Adhesive is effective at protecting the flooring from moisture through the concrete, however it will not protect from environmental moisture such as flooding, leaks, wet mopping or spills.
- Do not install if standing water is observed on the surface of any substrate.
- Do not install in areas with known hydrostatic moisture problems.
- Do not install if the substrate has a glass-like surface.
- Patch and level with exterior-rated, cement-based products only.

USE

- Approved for use with solid and engineered exotic and domestic wood flooring of any width and length; finger block parquet; acrylic impregnated wood and laminated plank; bamboo; and reground rubber or cork underlayments.
- For all Interior use.

SUITABLE SUBSTRATES

- Porous concrete that has been installed at least 14 days.

- Properly prepared cement terrazzo.
- Exterior-grade plywood and other approved wood substrates (per wood-flooring manufacturer recommendations). Note: Moisture-barrier properties do not apply to installations over wood underiayments.
- Existing, properly prepared ceramic tile as long as glazed surfaces are abraded.
- Exterior-rated, cement-based self-leveling underiayments and patching compounds.
- Properly prepared, primed gypsum underiayments that meet the requirements for compressive strength according to ASTM F2419. Note: Moisture-barrier properties do not apply to installations over gypsum underiayments.
- Radiant-heat systems that have been properly installed. Note: Moisture-barrier properties do not apply to installations over radiant-heat systems.

SUBFLOOR PREPARATION

- All substrates must be structurally sound, dry, solid and stable, dry to the touch with no visible standing water.
- The substrate should be clean and free of dust, dirt, oil, grease, paint, curing agents, concrete sealers, loosely bonded toppings, loose particles, and any other substance or condition that may prevent or reduce adhesion.
- Substrates must be flat to 3/16" in a 10-ft. span (4,5 mm in a 3,05-m span).
- Concrete surfaces must be porous. Do not install over extremely smooth, non-porous or glass-like concrete surfaces. If the substrate is glass-like or non-porous, it must be mechanically profiled to a (CSP) of #1 or #2. International Concrete Repair Institute (ICRI) concrete surface profile (CSP) #1 to #2 standard. Note: Diamond grinding and/or rough grit sandpaper is an approved method for subfloor preparation in small areas that are not accessible by the methods mentioned above.
- Concrete and exterior-rated, cement-based underiayments/patches must be cured and free of any hydrostatic and/or moisture problems.

For questions, please contact Shaw technical service.

CONDITIONS OF USE

Substrate temperature should be between 65° F (18°C) and 90°F (32°C).

MIXING

Ready to use; no mixing required

Note: Choose all appropriate safety equipment before use. Refer to Material Safety Data Sheet (MSDS) for more information.

PRODUCT APPLICATION

- Read all installation instructions thoroughly before installation.
- Refer to the wood-flooring manufacturer's guidelines for acclimation requirements and complete installation instructions.
- Remove the clip-on trowel attachments found inside the pail. See chart below to select proper trowel.
- Using a generous amount of adhesive, key the adhesive into the subfloor using the flat side of the trowel forming a continuous film of adhesive.

- Once the adhesive has been keyed in, immediately spread the adhesive using the provided clip-on trowel. Trowel ridge lines should be perpendicular to the wood-flooring installation direction. Hold the trowel at a 60° to 90° angle to the subfloor, making sure that the subfloor is covered 100% with adhesive and no void spots appear other than the "valley bottoms" created by the trowel. These areas will fill in as the wood is installed.
- Only apply as much adhesive as can be installed in 45 minutes.
- Install flooring in strict accordance with the flooring manufacturer's written instructions.
- Install the wood flooring immediately, pressing firmly into the adhesive to ensure 100% coverage of the subfloor and transfer to the wood flooring backing.
- Roll with 100 pound roller to insure wood is totally seated into the adhesive.
- Do not reuse clip-on trowel attachments.
- Protect from light traffic for at least 12 hours. Protect from heavy traffic for at least 24 hours.

CLEANUP

Clean any adhesive smudges *immediately* using a solvent-based urethane cleaner. Clean while adhesive is still fresh or wet.

NOTE: Shaw 35 MC premium plus is extremely difficult to remove when cured. **Do not use water to remove adhesive or adhesive residue.**

PROTECT FROM FREEZING

Freeze/thaw-stable up to 5 cycles at 0°F (18°C). Store at room temperature in a dry area.

PRODUCT PROPERTIES

Polymer type	Moisture-cured Polyurethane
Percent solids	100%
VOCs (Rule #1 168 of California's SCAQMD)	< 20 g/L
Odor	Light and sweet
Density	14 lbs. per U.S. gal. (1,69 g per ml)
Color	Caramel
Flash point (Tag)	> 200°F (93°C)
Shelf life	1 year when stored in original, unopened package at 73°F (23°C)
Perm rate (ASTM E96)	<0.15 perm

ASTM Standards for Sound Reduction: The following sound tests (for tile and wood flooring) were conducted and results supplied by NGC Testing Services, Buffalo, NY.

Sound-Reduction Ratings - Engineered Wood 3/8" (10 mm) Thick Over 6" (15 cm) Concrete Slab

ASTM Test Method	No Suspended Ceiling	Suspended Gypsum Ceiling
ASTM E9009/E41304 (STC) Airborne sound	50 (NGC Test No: 5010020)	67 (NGC Test No: 5010019)
ASTM E492-09/E98&09 (IIC) Impact Sound	50 (NGC Test No: 7010034)	68 (NGC Test No: 7010037)
ASTM E217&03 (Delta	21 (NGC Test No:	N/A

IIC) Impact Sound

7010035)

Trowels and Coverage: For Moisture or Sound Control and Crack Suppressant Warranty
For any questions, call the Shaw Information Center at 1-800-441-7429

**Trowel
Coverage
Flooring Type**

For wood flooring > 3/8" (10 mm) and < 3/4" (19mm) in thickness:


30 sq. ft. per U.S. gal

3/8"x3/16"x3/8"x1/16" (10 x 4,5x10x1,5 mm) V-notch with spacers

For wood flooring less than < 3/8" (10mm) in thickness:

1/8"x1/8"x 1/8"x 1/16" (3x3x3x1,5 mm) V-notch with spacers
36 sq.ft. per U.S. gal

Trowels and Coverage: For Adhesive Bond Only
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Flooring Type	Trowel	Coverage
multi-ply engineered plank 3/8" up to 1/2" and 5/16" to 3/8" solid strip	 <p>3/16" X 1/4" on 1/2" Centers V Notch</p>	50-60 sq. ft. per U.S. gal
1/8" x 1/8" x 1/8" sq.	5/16" solid parquet, 1/4" engineered plank	injinruTJir Notch 70-80 sq. ft. per U.S. gal