

## Hav:Bond H50

### Flexible Wood Floor Adhesive

#### 650144H



#### Product Description

Hav:Bond H50 is a one-component, silane-based wood flooring adhesive that offers adhesion to a variety of surfaces. The initial bonding strength and ridge stability makes it particularly suitable for engineered flooring installations with low movement. The adhesive offers a long open time of up to 90 minutes and allows for easy trowel application.



<b>Ingredients</b>	Calcium carbonate, silane modified prepolymer, plasticizers, amorphous silica.
<b>Base</b>	Silane Modified-Prepolymer.
<b>Color</b>	Tan.
<b>Density</b>	15 lbs/gallon.
<b>Max Shear Strength</b>	145 psi (1 mm, ISO1718).
<b>Max Elongation</b>	>100% (1 mm, ISO17178).
<b>VOC Content</b>	ZERO VOC.
<b>Moisture Levels</b>	Up to 6 lbs. or 80% RH (trowel dependent.) For additional moisture protection you must use Bona R540 or Bona RollGuard. Maximum 6lbs / 80% RH over radiant heat.
<b>Sound Ratings</b>	Meets ASTM E90-09 (2016)/ E413-16 STC and ASTM E492-09 (2016) e1/ASTM E989-21 IIC, with ceiling; 60 STC and 67 IIC on 6" slab.
<b>Odor</b>	Non-offending.
<b>Flash Point</b>	>100° C (212°F) (Pensky-Martens).
<b>Stability</b>	12 months from date of manufacture in unopened, original packaging.
<b>Packaging</b>	3-gallon container.

\*Dependent of temperature and humidity. Higher humidity decreases open time while lower humidity increases open time.

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<b>Spread Rating</b>	Easy to spread, maintains excellent ridge stability.
<b>Open Time</b>	Up to 90 minutes 70oF and 50% RH*.
<b>Coverage</b>	See "Trowel Notch Requirements" for spread rate.
<b>Curing</b>	Light foot traffic - 8-10 hours Furniture, fixtures - 12-24 hours Unfinished floor sanding - after 24 hours.
<b>Clean-up</b>	Clean adhesive from the surface of the floor while wet. Use mineral spirits on a clean white cloth.
<b>Storage</b>	Store in a climate controlled environment. Do not store for extended periods in excess of 90°F (32°C). Freeze thaw stable.

### Recommended Use

Commercial and residential. engineered prefinished and unfinished flooring, maximum 10" width, 5/8" thick; on, above or below grade. (Read and follow flooring manufacturer instructions, recommendations, and limitations as to the suitability of a particular flooring product to certain jobsite conditions and installation methods.)

May be used on both wood and concrete substrates. (After proper site conditions, moisture testing results and substrate preparation have been met. See 'Directions for Use' for acceptable jobsite conditions.)

### Response

BEFORE USING, READ ALL DIRECTIONS AND MATERIAL SAFETY DATA SHEETS. KEEP OUT OF REACH OF CHILDREN.

For advice and further information please speak to our Technical team.

IN CASE OF EYE CONTACT, flush immediately with water. Get medical attention if irritation occurs. For skin, wash thoroughly with soap and water. If affected by inhalation, remove to fresh air. If swallowed, do not induce vomiting. Get medical attention.

### Acclimation and Site Conditions

Building climate control system must be functioning with a temperature of 65°F–80°F and maximum relative humidity of 65% for 72 hours before flooring is installed, during installation, and for 72 hours after installation. Ideal conditions are 65-70oF and 45-55% RH. Acclimate Hav:Bond H50 adhesive to room temperature of the installation, usually overnight.

### Moisture Testing

For concrete slabs, using standard application, conduct moisture testing per ASTM test methods F 1869. Test for Measuring Moisture Vapor Emission Rate (MVER) of Concrete Subfloor using Anhydrous Calcium Chloride, and/or F 2170 Test Method for Determining Relative Humidity in Concrete Floor Slabs using In Situ probes.

Contact ASTM International to obtain copies of the test methods before proceeding. When using B6, B18, or B10 trowels, the MVER using ASTM F 1869 (Calcium chloride test) shall not exceed 6 lbs/24 hours/1000 square feet. Relative Humidity using ASTM F 2170 (RH Probe test) shall not exceed 80%. If MVER readings exceed 6 lbs. or 80% but are less than 18 lbs. or 95%, use a suitable Havwoods recommended suitable moisture barrier. For further information, contact our Technical team. If using the Bona EFP trowel, MVER using ASTM F 1869 (Calcium chloride test) shall not exceed 3 lbs/24 hours/1000 square feet. Relative Humidity using ASTM F 2170 (RH Probe test) shall not exceed 75%. If MVER readings exceed 3 lbs. or 75% but are less than 18 lbs. or 95%, use Bona RollGuard™ or Bona R540 Moisture Barrier/Primer (See label for detailed instructions). For wood substrates, follow flooring manufacturer's guidelines including moisture content and required moisture measuring methods. When used over radiant heat. the maximum moisture protection is 6 lbs. / 80% RH.



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### Substrate Preparation

Substrate must be clean, smooth, dry, free of loose material and structurally sound, with the surface slightly textured (similar to a light broom finished concrete) for best adhesion. Remove adhesive residue, paint, concrete curing compounds or other contaminants that may affect adhesive bonds. Sandblasting shot blasting or scarifying may be necessary to completely remove some of these residues. Surface cracks, grooves, depressions, control joints or other non-moving joints, and other irregularities must be filled or smoothed with a Portland Cement based patching and leveling compound. Substrate must be level to 3/16" in a 10-foot span. To achieve moisture protection when a patch of leveling compound is used, first apply a Havwoods recommended moisture barrier, speak to our Technical team for more information.

Dry sand should be broadcast into the final coat of moisture barrier (while wet, until rejection) prior to the application of leveling compounds. Apply leveling compound following manufacturer's instruction. Do not install wood flooring before the compound is fully cured.

Do not install over expansion joints or other moving joints in a concrete slab. Slab temperature must be between 55°F and 95°F. Suitable substrates include concrete, plywood, Warmboard®, cork, particle or OSB, stone, ceramic, terrazzo, radiant heat flooring (refer to manufacturer's recommended installation instructions), and dry above-grade gypsum underlayment, recycled-rubber underlayment.

### Product Limitations

Hav:Bond H50 will not prevent moisture-related damages to wood flooring originating from the top, sides or ends of flooring (water leaks, puddles, hydrostatic head, etc.) nor does it eliminate other moisture or installation related issues such as improper acclimation of flooring or the effects of jobsite temperature and humidity.

#### DO NOT USE HAV:BOND H50

- On wet, contaminated or friable surfaces.
- Over concrete curing compounds, sealers or other surface treatments that could affect adhesion.
- On areas subject to hydrostatic head.
- On cutback residue, or over vinyl/VCT.
- On chemically treated woods (stain, preservatives, etc.).
- As a leveling compound.
- As a moisture barrier over leveling compounds or patches.

### Spreading Adhesive and Layering Flooring

Pour adhesive along the length of the desired install location. Spread adhesive on the substrate while holding the trowel at a 90° angle, using a smooth semicircular motion. Do not leave any puddles of adhesive. Set the flooring into the adhesive while the adhesive is still wet. At the start of the installation, and repeatedly throughout the installation, pull a freshly laid board to ensure proper coverage on substrate. This can be repeated a second time, mid-installation, to ensure consistency. Do not allow more than 60 to 90 minutes

of open time before setting flooring into the adhesive. (Up to 90 minutes at 70°F and 50% RH; higher humidity can decrease open time, lower humidity can increase open time). DO NOT SET FLOORING INTO ADHESIVE THAT HAS SKINNED OVER, REMOVE ADHESIVE AND REAPPLY.







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#### Trowel Selection | Sélection de la truelle

Description   La Description		Use   Utilisation	Coverage Rate* Taux de couverture*	Moisture Protection† Protection contre l'humidité
 5/16" x 5/16" x 7/16" V-notch	Bona 1500G Trowel	Engineered flooring up to 10" wide & 5/8" thick	Up to 50 sq.ft. /gallon	≤ 6 lbs. / 80% RH
Truelle dentelée en V de 7,93 mm x 7,93 mm x 11,11 mm	Truelle Bona 1500G	Plancher d'ingénierie jusqu'à 25,4 cm (10 po) de largeur, 1,5 cm (5/8 po) d'épaisseur	Jusqu'à 4,65 m <sup>2</sup> / 4 litres	≤ 2,72 kg (6 lb) / 80 % HR
 3/16" x 7/32" x 25/64" V-notch	Bona Engineered Flooring (EF) Trowel	Engineered flooring up to 7 1/2" wide & 5/8" thick	Up to 75 sq. ft. /gallon	≤ 6 lbs. / 80% RH (trowel only)**
Truelle dentelée en V de 4,76 mm x 5,55 mm x 9,9 mm	Truelle Bona (EF)	Plancher d'ingénierie jusqu'à 19,05 cm (7 1/2 po) de largeur, 1,5 cm (5/8 po) d'épaisseur	Jusqu'à 6,97 m <sup>2</sup> / 4 litres	≤ 2,72 kg (6 lb) / 80 % HR (truelle seulement)**
 5/16" x 5/16" x 3/4" V-notch	Bona Engineered Flooring Plus (EFP) Trowel	Engineered flooring up to 7 1/2" wide & 5/8" thick	Up to 70 sq. ft. /gallon	≤ 3 lbs. / 75% RH (trowel only)**
Truelle dentelée en V de 8 mm x 8 mm x 19 mm	Truelle Bona (EFP)	Plancher d'ingénierie jusqu'à 19,05 cm (7 1/2 po) de largeur, 1,5 cm (5/8 po) d'épaisseur	Jusqu'à 6,87 m <sup>2</sup> / 4 litres	≤ 1,36 kg (3 lb) / 75 % HR (truelle seulement)**
 5/32" x 5/32" x 5/32" V-notch	Bona 1000F Trowel	Engineered flooring only, 5" wide up to 1/2" thick  Acoustical underlayment	Up to 85 sq. ft./ gallon	≤ 6 lbs. / 80% RH (trowel only)**
Truelle dentelée en V de 4 mm x 4 mm x 4 mm	Truelle Bona 1000F	Plancher d'ingénierie uniquement, 12,7 cm (5 po) de largeur, jusqu'à 1,27 cm (1/2 po) d'épaisseur  Sous-couche acoustique	Jusqu'à 7,89 m <sup>2</sup> / 4 litres	≤ 2,72 kg (6 lb) / 80 % HR (truelle seulement)**

For engineered flooring greater than 10" wide or greater than 5/8" thick, and solid wood flooring, use Bona Quantum® R851 or Bona Quantum® Flow Adhesive. \*Coverage rates are dependent of board width and subfloor flatness (must be flat within 3/16" over 10 foot radius), substrate porosity (recommended CSP 3), pressure and angle of trowel during application. \*\*Two coats of a dedicated moisture barrier will provide additional protection; see individual product Technical Data Sheets for detailed information. †When used over radiant heat, the maximum moisture protection is 6 lbs. / 80% RH.