

WOOD FLOOR ADHESIVE

NEXUS-FUSION

PREMIUM PLUS, STP Wood Floor Adhesive with Moisture Control

PRODUCT DESCRIPTION:

Single-component, solvent and water-free Silane-Terminated Polymer wood adhesive for hardwood floors.

AREA OF APPLICATION:

- ▶ Moisture control up to 95% RH**
- ▶ Installation of solid 3/4" wood flooring up to 8" wide
- ▶ No width or length restrictions for engineered flooring
- ▶ Approved for use over radiant heat systems
- ▶ Prefinished and unfinished engineered wood flooring
- ▶ Solid tongue & groove strip and plank
- ▶ Exotic species
- ▶ Wood flooring on most subfloors with adequate strength, such as concrete, fortified gypsum, plywood, and OSB
- ▶ Double stick application approved including recycled rubber
- ▶ Warm board approved
- ▶ Advantech Plywood approved
- ▶ No limitations on board width or length for nail down glue assist (B-11 trowel)

NOTE:

DOT UN-Number: Not regulated

Hazard Class / PG: Not regulated

Freeze/thaw stable: Yes

Certification: SCS Indoor Advantage™ Gold

Recommended applicators: UZIN All-in-One Trowel, B-11 Trowel



FEATURES – BENEFITS:

- ▶ Moisture control up to 95% RH – Prevents floor adhesion failure
- ▶ Extended working times – Efficient placement of adhesive & wood flooring
- ▶ Sound reduction properties – Absorbs noise that may travel through floors
- ▶ Silane technology – Strong mechanical bond with wood floor and strong chemical bond with substrate
- ▶ Easy clean up – Will not etch finished floor

TECHNICAL DATA:

Packaging:	3 gal. plastic pail (11.4 L)
Shelf life:	Min. 12 months
Color:	Beige
Coverage:	• MC on subfloors up to 95% RH: 25 – 30 sq.ft./gal or 75 – 90 sq.ft./pail with All-in-One Trowel (1/8" x 1/8" x 1/8" x 1/16") • When used in conjunction with a PALLMANN MVR, or when MC does not exceed 85% RH: 65 sq.ft./gal or 195 sq.ft./pail with B-11 trowel
Working climate:	Min. 60 – 85 °F (15 – 25 °C) min. 60 °F at floor level. Freeze / thaw stable.
Drying time:	Foot traffic, 8 – 10 hours furniture or sanding, 24 hours
Working time:	Up to 1 hour*
Ready for sanding:	After approx. 24 hours*
Load-bearing:	After approx. 8 hours*
Final strength:	After 5 – 7 days*
VOC	< 10g/L
Water vapor permeability	According ASTM E 96, < 3 Perms

* At 70 °F and 65 % rel. humidity



APPLICATION:

BEFORE USING, READ ALL DIRECTIONS AND THE SAFETY DATA SHEET (SDS).

FOR PROFESSIONAL USE ONLY.

This product meets or exceeds all applicable state and federal clean air quality standards, reflecting our commitment to personal health, indoor air quality, and environmental sustainability. If technical advice is needed, contact PALLMANN® (1-866-505-4810), a division of Uzin Utz North America, before using the product.

Substrate preparation:

- ▶ The substrate must be flat and level, sound, free from cracks, dry with no visible standing water and dry to the touch, clean and free from materials which would impair adhesion (dirt, oil, grease, curing agents, and sweeping compounds). Thoroughly brush, abrade, grind, or shotblast to remove weakly bonded or soft surface areas. All concrete surfaces must be processed to an International Concrete Repair Institute (ICRI) concrete surface profile (CSP) of #2 to #3 using these methods. Thoroughly vacuum off any loose material or dust.
- ▶ When using the B-11 trowel and applying adhesive at 65 sq. ft. per gallon, MVER using ASTM F 1869 (Calcium chloride test) shall not exceed 12 lbs/24 hours/1000 sq. ft. Relative humidity using ASTM F 2170 (RH Probe test) shall not exceed 85%.
- ▶ If MVER readings exceed 12 lbs. or 85% but are less than 18 lbs. or 95%, use UZIN All-in-One Trowel and spread the adhesive at a coverage rate of up to 30 sq. ft. per gallon.
- ▶ For maximum moisture protection, ensure 100% transfer and coverage of adhesive to the concrete subfloor, creating an uninterrupted and continuous membrane of adhesive.
- ▶ For concrete substrates with moisture exceeding 18 lbs. or 95%, the use of either P104 TURBO or P108 DEFEND moisture vapor retarders is recommended. (See product labels for detailed instructions.)

Application of NEXUS-FUSION

1. Allow the contents of the container to come to room temperature before use. Once opened, peel the plastic cover from the surface and, if necessary, remove any surface skin which may have formed – do not mix in the skinned-over product.
2. Follow the wood flooring manufacturers' guidelines for layout, design, and any special precautions for installation. Apply the adhesive evenly using the correct trowel size (refer to the chart). Apply only as much adhesive as can be covered within 60 minutes. Lay the wood flooring into the adhesive bed with a light twisting motion and press or tap into place. Ensure complete adhesive transfer to the back of the wood flooring. For moisture control installation, ensure 100 % transfer and coverage.

Approximate Coverage:

- ▶ For moisture control on subfloors up to 95% RH, 25 – 30 sq. ft. per gallon / 75 – 90 sq. ft. per pail (using **UZIN All-in-One Trowel**).
- ▶ When used in conjunction with a PALLMANN MVR or when moisture content does not exceed 85% RH, 65 sq. ft. per gallon / 195 sq. ft. per pail (using **B-11 trowel**).

****Purpose:** Moisture control up to 95% RH
Recommended Trowel: UZIN All-in-One Trowel, 1/8" x 1/8" x 1/8" x 1/16"

Coverage: 25 – 30 sq. ft. per gal. / 75 – 90 sq. ft. per pail

Traditional Installation Method***

Type of wood flooring:

Solid wood flooring 3/4" up to 8" wide
 Engineered wood flooring without limitations

Typical Trowel: B-11 3/16" x 1/4" x 5/16"

Coverage: 65 sq. ft. per gal. / 195 sq. ft. per pail

*** Coverage shown is for estimating purposes only. Actual jobsite coverage may vary depending on substrate conditions, the type of trowel used, and setting practices.

Sound-Reduction Ratings – Solid Oak Wood 3/4" (19 mm) Thick Over 6" (15-cm) Concrete Slab²

ASTM Test Method	No Suspended Ceiling	Suspended Gypsum Ceiling
ASTM E90-09 (2016)/E413-16(STC) – Airborne sound	50	62
ASTM E492-09/E989-18 (IIC) – Impact sound	47	68
ASTM E2179-03 (Delta IIC) – Impact sound	18	

Assembly details:

PALLMANN® NEXUS-FUSION hardwood flooring adhesive applied with B 11 notch trowel 1. 1 layer of 3/4" thick x 3-1/2" wide (19 mm x 8,9 cm) random-length, solid oak, prefinished hardwood flooring 2. 6" (15,24 cm) thick reinforced concrete slab; weight is 70 psf (366,2 kg per m²)

CLEAN UP:

Remove adhesive spills immediately from the flooring surface using PALLMANN® CLEAN BOX wipes.

PROTECTION OF THE WORKPLACE AND THE ENVIRONMENT:

Do not handle until all safety instructions have been read and understood. Safety Data Sheet (SDS) is available at www.pallmann.us.

DISPOSAL:

Dispose of the product and packaging according to all federal, state, and local applicable regulations. Avoid or minimize waste generation when possible. Cardboard packaging is recyclable.

INDOOR AIR QUALITY INFORMATION

Certification: SCS Indoor Advantage™ Gold

VOC content: < 10g/L, Compliant with SCAQMD 1168

VOC emission: Low VOC Emission: 5mg/m³ or less TVOC
emission per CDPH testing method