

NA 8500



North American
ADHESIVES®

Wood Flooring Adhesive

Formerly SF 6100



GOOD

BETTER

BEST

PRODUCT DESCRIPTION

A moisture-curing urethane adhesive for the installation of glue-down solid, engineered and parquet wood flooring, as well as bamboo flooring and cork underlayments

USES

- For installing all sizes of glue-down engineered wood flooring
- For installing glue-down solid wood planks up to 3/4" (19 mm)
- For installing parquet wood flooring
- For installing bamboo flooring
- For installing cork underlayments

SUITABLE SUBSTRATES (properly prepared)

- Fully cured, dry concrete
- Approved wood underlayments such as APA exterior-grade plywood
- NA 1300 membrane
- NAA patch, skimcoat and leveling products installed over concrete and approved wood underlayments
- Existing, properly prepared and firmly bonded: ceramic tile and cement terrazzo
- Radiant-heat systems (properly installed)

Note: Refer to flooring manufacturer regarding acceptable substrates and underlayments.

SURFACE PREPARATION

1. All surfaces must be structurally sound, dry, solid, dimensionally stable, clean, and free of any substance or condition that may reduce or prevent the adhesive's bond to the substrate. These include, but are not limited to, concrete sealers or curing agents, dirt, wax, paint and loose toppings. If the surface contains these substances, they must be mechanically removed.
2. Look for and correct any substrate imperfections and irregularities, such as bumps, depressions and cracks.
3. The substrate should be smooth and level within a tolerance of 3/16" (4,5 mm) in 10 feet (3,05 m) or in accordance to the wood-flooring manufacturer's guidelines. Use NAA's patching or leveling products to fill in holes, level and smooth as needed.
4. Test the concrete slab using calcium chloride tests (ASTM F1869) to determine the moisture vapor emission rate (MVER). The allowable rate is no more than 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m²) per 24 hours.

TECHNICAL QUICK REFERENCE

Product characteristics at 73°F (23°C) and 40% relative humidity
Application temperature From 55°F (13°C) to 100°F (38°C)

| | | |
|--|---|---|
| Open time [†] | At 73°F (23°C) and 50% relative humidity At 50°F (10°C) and 80% relative humidity At 100°F (38°C) and 20% relative humidity | 2 hours, 30 minutes 3 hours, 30 minutes 4 hours, 15 minutes |
| Cure time [†] | | 24 hours |
| Ready for light traffic | | After 8 to 12 hours |
| Freeze/thaw stability | | Stable |
| Flash point | | > 200°F (> 93°C) |
| Maximum tolerance of moisture vapor emission rate (MVER) | | 3 lbs. per 1,000 sq. ft. (1,36 kg per 92,9 m ²) per 24 hours (ASTM F1869) |
| Volatile organic compounds (VOCs) | | 44 g/L |
| Consistency | | Creamy and easy to spread |
| Cleanup | | Must be cleaned up immediately, while still fresh. Use a clean, white rag with mineral spirits. |
| Color | | Beige |
| Shelf life | | 1 year when stored in original, sealed container in a dry area at room temperature |
| Packaging | | Pail: 3.5 U.S. gals. (13.2 L) 5 U.S. gals. (18,9 L) |

[†] Open time and cure time will vary according to temperature, humidity, subfloor porosity and trowel size.

TYPICAL TROWELS AND APPROXIMATE COVERAGES* for a pail of 5 U.S. gals. (18,9 L)

Engineered wood flooring – up to 1/2" (12 mm) thick

5/32" x 3/16" (4 x 4,5 mm)  45 to 55 sq. ft. / U.S. gal. (1,10 to 1,35 m² / L)

Parquet wood flooring

1/8" x 1/8" x 1/8" (3 x 3 x 3 mm)  85 to 95 sq. ft. / U.S. gal. (2,08 to 2,33 m² / L)

Engineered wood flooring – over 1/2" (12 mm) thick

1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)  30 to 40 sq. ft. / U.S. gal. (0,73 to 0,98 m² / L)

Solid wood plank – up to 1/2" (12 mm) thick

1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)  30 to 40 sq. ft. / U.S. gal. (0,73 to 0,98 m² / L)

Solid wood shorts – up to 3/4" (19 mm) thick

1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)  30 to 40 sq. ft. / U.S. gal. (0,73 to 0,98 m² / L)

Bamboo flooring

1/4" x 1/4" x 1/4" (6 x 6 x 6 mm)  30 to 40 sq. ft. / U.S. gal. (0,73 to 0,98 m² / L)

* Coverage is for estimating purposes only. Actual coverage may vary according to substrate conditions, trowel used and setting practices.

HEALTH AND SAFETY

Consult the Material Safety Data Sheet (MSDS) for safe-handling instructions.

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5. The recommended temperature and humidity levels of the installation area should be set and maintained for at least 72 hours before, during and after the installation. Refer to the flooring manufacturer's instructions.
6. At least 48 hours before the installation or according to the wood-flooring manufacturer's directions, the wood-flooring material, NA 8500 adhesive, and any other installation products or materials should be placed in the installation area.
7. Use a quality hygrometer to check the relative humidity of the area, the relative humidity of the slab and/or any cement-based repair material, the air temperature, and the moisture content of both the wood subfloor and the wood-flooring material. Do not proceed with the installation unless these values are in strict accordance with the wood-flooring manufacturer's guidelines.

APPLICATION

1. Install wood flooring in strict accordance with the flooring manufacturer's directions.
2. Install and secure the starter row by wedging or face-nailing.
3. Spread the adhesive evenly using the trowel recommended by the wood-flooring manufacturer to ensure 95% to 100% adhesive contact. (See the "Technical Quick Reference" table for approximate coverages.) Promptly replace the lid on the container after spreading adhesive.
 - **Wet-lay method:** Press the wood flooring firmly into the adhesive immediately after troweling.
 - **Walk-on method:** Press the flooring firmly into the adhesive after it has developed its initial grab. Typically this occurs 15 to 20 minutes after spreading, at 73°F (23°C) and 40% relative humidity.
4. Keep gloves clean. Make every effort to prevent adhesive from getting onto the flooring surface.
5. To verify proper contact between the flooring, adhesive and substrate, occasionally remove a few pieces of flooring and check for acceptable coverage.
6. Roll and/or apply weight according to the wood-flooring manufacturer's instructions. Rolling is recommended for all wood-flooring installations unless otherwise stated by the flooring manufacturer.
7. Complete the installation per the wood-flooring manufacturer's instructions.
8. **Remove adhesive smudges immediately.** Use NA 8550 urethane adhesive cleaner to remove them, but first test to ensure that the wood-flooring finish is not dulled or damaged by NA 8550 urethane adhesive cleaner. Once NA 8500 is dry, it is very difficult to remove.
9. Clean tools immediately with NA 8550.
10. After each use, cover unused portion of adhesive completely with dense, nonporous plastic film and secure the lid tightly. Store in a dry area at room temperature (73°F [23°C]).

EXPANSION AND CONTROL JOINTS

1. Provide for expansion and control joints where specified.
2. Allow for perimeter spacing according to the wood-flooring manufacturer's guidelines.
3. Cut the flooring material on both sides along the edges of expansion joints. Insert the specified transition for expansion and control joints, according to plans and specifications. Avoid covering any expansion joints with adhesive or flooring.

PROTECTION

1. Avoid traffic for at least 12 hours to allow proper adhesive setup.
2. Because actual living conditions (temperature and humidity settings, etc.) will be controlled by the homeowner or building owner, it is advisable to inform the owner of the required temperature and humidity range as recommended by the flooring manufacturer. These conditions must be maintained to ensure the overall performance and long-term success of the installation.

IMPORTANT NOTICE

Before using, user shall determine the suitability of the product for its intended use and user alone assumes all risks and liability whatsoever in connection therewith. **ANY CLAIM SHALL BE DEEMED WAIVED UNLESS MADE IN WRITING TO US WITHIN FIFTEEN (15) DAYS FROM DATE IT WAS, OR REASONABLY SHOULD HAVE BEEN, DISCOVERED.**

For the most current product data, visit www.na-adhesives.com.



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ADHESIVES®

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