

Bona R850T

Technical Data Sheet

Bona R850T is a one-component, moisture curing, water and solvent free, silane-based adhesive for wood floors. Bona R850T provides outstanding adhesion to a variety of surfaces, and allows for the natural movement of wood flooring.

- Perfect alternative to face nailing close-out rows, board replacements and trim applications
- Excellent initial "green grab" means the flooring stays in place
- Rapid shear strength development – Flooring is ready for furniture and foot traffic in one day
- Easy to clean – Will not harm the finish on pre-finished trim and floors; will not stain hands
- Easy to apply – Clean, No Waste, Ergonomical design
- Exceptional ridge stability provides maximum adhesive transfer
- GREENGUARD Gold Indoor Air Quality Certified
- Zero VOC – Meets the criteria for LEED EQc 4.1 (v. 2.1, 2.2, 3.0)
- Moisture protection up to 15lbs or 85% RH
- California Proposition 65 Compliant
- Can be used with radiant heat systems

Technical data

Physical Characteristics:

Ingredients – Calcium carbonate, silane modified prepolymer, plasticizers, amorphous silica

Base – Silane Modified-Prepolymer

Color – Cream

Density – 12.5 lbs./ gallon

VOC Content – ZERO VOC

Max Shear Strength – 335 psi (at final cure; lap sheer test, 1 mm gap)

Max Elongation – 250%

Sound Reduction Rating – 70dB per ASTM E492-04 IIC (6" concrete slab with ceiling)

Odor – Non-offending

Flash Point – >100° C (212°F) (Pensky-Martens)

Stability – 12 months from date of manufacture in unopened, original packaging

Application Characteristics:

Open Time - 40 minutes

Coverage – 60 linear feet per tube with ¼" bead

Curing – Light foot traffic - 8-10 hours

Furniture, fixtures - 12-24 hours

Unfinished floor sanding - after 24 hours

Recommended Use

- Replaces top nailing on close-out rows and board replacements.
- Supplemental fastening for wide plank boards when nailing and gluing are needed
- Idea for projects where traditional fastening isn't practical – hard to reach areas, radiant heat floor
- Commercial and residential. Use with solid or engineered prefinished and unfinished flooring; on, above, or below grade¹. May be used on both wood and concrete substrates².

¹Read and follow flooring manufacturer instructions, recommendations and limitations as to the suitability of a particular flooring product to certain jobsite conditions and installation methods.

²After proper site conditions, moisture testing results and substrate preparation have been met. See "Directions for Use" for acceptable jobsite conditions.

Directions

BEFORE USING, READ ALL DIRECTIONS AND MATERIAL SAFETY DATA SHEETS.

FOR TECHNICAL ADVICE: Call Bona US at 800-872-5515

ACCLIMATION AND SITE CONDITIONS: Acclimate adhesive and flooring to room temperature at the jobsite 72 hours before installation. Building climate control system must be functioning with a temperature of 65°F - 80°F and maximum relative humidity of 70% for 72 hours before flooring is installed, during installation, and for 72 hours after installation.

MOISTURE TESTING: For concrete slabs, conduct moisture testing per ASTM test methods F1869 *Test for Measuring Moisture Vapor Emission Rate (MVER) of Concrete Subfloor Using Anhydrous*

Adhesives



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Calcium Chloride and/or F2170 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. **MVER using ASTM F1869 (Calcium chloride test) must not exceed 15 lbs/24 hours/1000 square feet. Relative Humidity using ASTM F2170 (RH Probe test) must not exceed 85%. If readings exceed these limits, DO NOT USE BONA R850T.** For wood substrates, follow flooring manufacturer's guidelines including moisture content and required moisture measuring methods.

SUBSTRATE PREPARATION: Substrate must be clean, smooth, dry, free of loose material and structurally sound, with the surface slightly textured for best adhesion (similar to a light broom finished concrete). Remove adhesive residue, paint, concrete curing compounds or other contaminants that may affect adhesive bond. 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 levelling compound. Substrate must be level to 3/16" in a 10-foot span. Do not install wood flooring before the compound has fully cured. Do not install over expansion joints or other moving joints in a concrete slab. Slab temperatures must be between 55° and 95°F. Suitable substrates include concrete, plywood, particle or chip board, stone, ceramic, terrazzo, Warmboard®, radiant heat flooring (refer to manufacturer's recommended installation instructions) and dry above-grade gypsum underlayment, recycled rubber underlayment.

PRODUCT LIMITATIONS: Bona R850T 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 BONA R850T:

- 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

APPLICATION:

- Remove end cap of applicator gun and pull back piston.
- Insert R850T tube into applicator gun, snip the exposed end of the R850T tube.
- Replace end cap – make sure to use the supplied applicator cone.
- Apply by pulling applicator gun trigger.
- Apply adhesive along the entire length of the board for best results.

Maintenance

CLEAN-UP: Clean adhesive from the surface of the floor immediately, while wet. Use mineral spirits on a clean white cloth.

STORAGE: Store in a climate controlled environment. Keep from freezing. Do not store for extended periods in excess of 90° F.

Ordering Information

Bona R850T

Item#: BR850T5600USBO

#/Case: 12

Bona Applicator Gun

Item#: AT0003023

#/Case: 1

Replacement Cuff

Item#: AT0003032

#/Case: 1

Adhesives



Bona®