

# Solid Wood & Bamboo Flooring Adhesive

# 1408

○ SUPERIOR

Moisture Cure Urethane

Roberts® 1408 is a VOC compliant moisture cure urethane adhesive designed for the installation of solid, engineered and parquet wood, and bamboo flooring. It offers extremely high bond strength and does not contain water.

**Features:**

- Superb flexibility to expand and contract with wood
- Commercial performance
- Also ideal for wider engineered wood plank
- VOC compliant

**Uses:** For bonding solid wood plank, bamboo, flat milled shorts, finger/block parquet (plain back), engineered and acrylic impregnated flooring recommended for glue-down applications, cork underlayment and plywood.

**Substrates:** Concrete, APA or PS1-95 rated plywood, oriented strand board (lightly sanded), vinyl composition tile (well bonded, free of wax, residential engineered wood flooring only), acoustic cork underlayment, primed gypsum underlayment, terrazzo and radiant heated flooring systems. Consult the wood flooring manufacturer’s installation instructions for their specific underlayment recommendations.

**Surface Preparation:** Subfloors must be structurally sound, dry, smooth, flat and free of excess moisture/alkali and all substances (oil, wax, grease, paint, oil based sealers, adhesive residue, etc.) that might interfere with the bond of the adhesive.

All substrate cracks, holes, high spots and irregularities must be adequately repaired. Patching compounds must be suitable for the use application, polymer-modified and applied according to the manufacturer’s instructions. Expansion or other moving joints must not be filled or covered with flooring. Refer to ASTM 710 Standard Practice for Preparing Concrete Floors.

Concrete must be flat (≤ 1/8 inch in 10 ft.) with a minimum 3,000 psi. Burnished or steel troweled concrete must be roughened using a minimum 30-grit abrasive. Irregular substrates will lead to “hollow spots” or “popping.” It is very important to have a smooth level surface.

**Wood Substrates** – Subflooring, such as APA underlayment grade plywood, hardwood, oriented strand board (lightly sanded), or other materials, must be flooring/underlayment grade,



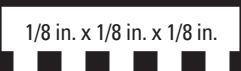
recommended for the specific flooring being installed and installed to the manufacturer’s specifications with adequate ventilation and moisture protection. Ensure wood substrates have a minimum 18 in. crawl space with adequate ventilation and moisture barrier protection. Cracks, chips and joints must be properly patched or repaired. Wood substrates must not have more than 12% moisture content. Ensure moisture content of wood subfloor is within acceptable moisture range of wood flooring prior to installation.

**Gypsum** – Gypsum based underlayments must be appropriately cured, dry, on or above grade, with a compressive strength of >2,500 psi for solid wood and >2,000 psi for engineered wood flooring. Consult flooring manufacturer for their specific recommendations for gypsum based underlayments.

**General:** Ensure HVAC is fully operational and is set to the temperature that will be maintained during the life of the flooring installation.

Ensure substrate, flooring material and adhesive are fully acclimated prior to installation at the same temperature and humidity level expected during normal use (between 65–95°F) with a relative humidity (RH) of no greater than 65%. Refer to flooring manufacturer’s specific recommendations and industry standards. Ensure moisture content of wood flooring and substrates are within the wood manufacturer’s specified range.

Materials, substrate and area temperature must be between 65–95°F with a maximum RH of 65% for 48 hours before and during installation as well as for 72 hours afterward. Large temperature or humidity increases or decreases can affect the flooring and performance of the installation.

FLOORING TYPE	TROWEL SIZE	ROBERTS ITEM #	COVERAGE
Wood Flooring (> 1/2 in. to ≤ 3/4 in. thick)	1/4 in. x 1/4 in. x 1/4 in. 	n/a	30–40 sq. ft. per gallon
Wood Flooring (≤ 1/2 in. thick)	1/4 in. x 1/4 in. x 1/4 in. 	49739 / 10142-12	45–55 sq. ft. per gallon
Finger Block Parquet	1/8 in. x 1/8 in. x 1/8 in. 	49732 / 10123-12	70–80 sq. ft. per gallon

The trowel notches referenced are those typically recommended for the type of flooring being installed. They are normally the minimum size recommended. Surface conditions (roughness and porosity of substrate), type of flooring and backing will ultimately determine the required trowel notch size and coverage. • Always check with the specific flooring manufacturer’s recommendations for their specific trowel requirements. • Ensure 100% transfer of adhesive to the substrate and the flooring backing.

**General:** (continued)

Ensure radiant heated floors have been in operation and that all excess residual moisture is removed (evaporated) from the system and the concrete slab is fully cured. Turn the heating system off to ensure that the adhesive does not dry to fast.

Ensure that you are installing a dimensionally stable species of wood; narrower boards are typically more dimensionally stable than wider boards. Once the flooring is installed slowly raise the temperature to the normal operating temperature at which the system will be maintained (no higher than 80°F).

Ensure adequate ventilation during flooring installation.

Refer to NWFA.org for additional information as well as wood manufacturer’s installation guidelines.

**Physical Characteristics:** (70°F, RH 50%)

**Open Time:** Up to 80 minutes

**Working Time:** Up to 120 minutes

**Cure Time:** 8–10 hours

**Product Type:** Moisture cure urethane

**Moisture Vapor Emissions:** 3 lbs. or less (ASTM F1869) / 75% or less (ASTM F2170) • pH must not exceed 9.0

**Shelf Life:** 1 year in unopened container; Freeze-thaw stable

**Application and Installation:** Do not install solid wood flooring or bamboo below grade. Clean any adhesive from surface flooring immediately with Roberts R5505 adhesive remover. Roberts 1408 is a chemical curing adhesive and once dry will form a chemical bond with the flooring surface. It is very important to remove this adhesive while it is still fresh and before it has completely cured.

**Wet-Lay Method** – Apply adhesive to substrate with appropriate trowel. Immediately install flooring into wet adhesive. Clean any adhesive from surface flooring immediately with Roberts R5505 adhesive remover.

**Walk-on Method** – Apply adhesive to substrate with appropriate trowel and allow it to develop tack. Install flooring into adhesive. After your “walk-on” set of boards have been installed; secure them with the appropriate surface tape to prevent boards from sliding or separating. Roll flooring installation with the manufacturer’s recommended roller to ensure proper contact.

The amount of time in which the adhesive cures will vary with temperature and humidity. The higher the temperature and the higher

the humidity the faster the adhesive will cure. Lift a board periodically to ensure 100% coverage of adhesive to the flooring backing and the substrate.

**Clean Up:** *Fresh adhesive* – Use R5505 Urethane/ Multipurpose Adhesive Remover or mineral spirits sparingly with a clean, white cotton cloth. **DO NOT POUR CLEANER DIRECTLY ONTO FLOORING.**

*Dried adhesive* – If adhesive dries on floor finish carefully scrape excess adhesive with plastic putty knife and use R5505 (see label instructions for proper clean up of dried adhesive). Avoid damaging the finish. Touch up any scratched finish with wood flooring manufacturer’s repair finish.

Refer to material safety data sheet, [www.robertsconsolidated.com](http://www.robertsconsolidated.com) and industry standards prior to installation for additional information. For installation questions that are not covered in this document please contact our Technical Services Department at (706) 277-5294.

**Limited Warranty:** Roberts warrants that this product will be free from manufacturing defects for 12 months from the date of purchase, when applied in accordance with Roberts’ instructions and industry standards. Roberts’ sole liability is to either supply new product or refund the original purchase price. **This limited warranty excludes all other express warranties including the warranties of merchantability for a particular use or purpose.** Any implied warranties arising by operation of law are limited to one year. Roberts will not be liable for any incidental or consequential damages. Visit [www.robertsconsolidated.com](http://www.robertsconsolidated.com) for full warranty details.

**Available Sizes:**

SIZE	PRODUCT #	UPC
5 Gallon	1408-5	075378140856
2 Gallon	1408-2	075378301363



**WARNING:** EXISTING FLOORING AND ADHESIVES MAY CONTAIN ASBESTOS. Unless you have confirmation that the existing flooring system is not asbestos containing, do not sand, dry sweep, dry scrape, abrade, drill, saw, bead blast, mechanically chip or pulverize existing flooring or adhesive without taking all appropriate precautions. Refer to local, state and federal guidelines for treatment and removal of these products. You may also refer to the Resilient Floor Covering Institute’s “Recommended Work Practices for Removal of Resilient Floor Coverings.”

EXISTING PAINT MAY CONTAIN LEAD. Unless you have confirmation that the existing paint is not lead containing, do not sand, dry sweep, dry scrape, abrade, drill, saw, bead blast, mechanically chip or pulverize existing paint without taking all appropriate precautions. Refer to local, state and federal guidelines for treatment and removal of lead containing paint. You may also refer to [www.epa.gov/lead](http://www.epa.gov/lead).