

# Engineered & Parquet Wood Flooring Adhesive

# 1404

PRIMARY

HIGH  
TACK

**Roberts® 1404 is an adhesive specifically designed to adhere 3, 5 and 7-ply engineered wood flooring and pre-finished parquet. It develops an initial tack to assist in holding boards in place during installation which makes installation easier. It remains flexible and moves with wood as it reacts to environmental changes.**

**Features:**

- High solids formula
- Excellent initial grab
- Great trowel ridge holding

**Enviro Friendly:**

- Solvent Free
- Zero VOCs (calculated)

Roberts 1404 is a solvent free adhesive and meets the strict requirements of the South Coast Air Quality Management District and may contribute one LEED point for “Low-Emitting Material–Adhesive and Sealant” (IEQ Credit 4.1). This product may also contribute one to two LEED points for MR Credit 5 if product is manufactured within 500 miles of the project site. Visit [usgbc.org](http://usgbc.org) for additional details.

Roberts 1404 is protected by GoldGuard®, an antimicrobial protection system that inhibits the growth of mold, mildew and odor causing bacteria in both wet and dry adhesive.

**Uses:** For bonding 3, 5 and 7-ply pre-finished engineered wood and 3, 5 and 7-ply acrylic impregnated engineered wood flooring that is ≤ 1/2 in. thick and ≤ 5 in. wide. Roberts 1404 may also be used with pre-finished parquet (dry back) wood flooring.

Roberts 1404 adhesive is not recommended for finished cork having a wear surface or a vinyl backing. This adhesive is not recommended for cork that will be installed as the final flooring surface. Roberts 1404 is not recommended for cork underlayment when used for bamboo or solid wood flooring installations. When installing bamboo/solid wood flooring use Roberts 1408 Solid Wood & Bamboo Flooring Adhesive to adhere cork underlayment to substrate.

Roberts 1404 is not recommended for engineered floors that utilize rubber wood or teak as a final bonding (bottom) layer. This product is not recommended for engineered wood flooring that is greater than 1/2 in. thick, more than 5 in. wide, solid wood flooring or bamboo. Instead use Roberts 1408.

**Substrates:** Concrete (on and above grade), APA rated plywood, oriented strand board (lightly sanded), acoustic cork underlayment, primed gypsum underlayment, terrazzo and radiant heated flooring systems.

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

All substrate cracks, holes, high spots and irregularities must be adequately repaired. Patching compounds must be cement-based, polymer-modified, suitable for the use application 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** – Subflooring, such as APA underlayment grade plywood, hardwood, oriented strand board (lightly sanded), or other materials, must be flooring grade 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.



FLOORING TYPE	TROWEL SIZE	ROBERTS ITEM #	COVERAGE
Pre-finished engineered wood (≤ 1/2 in. thick, ≤ 5 in. wide)	1/4 in. x 1/4 in. x 1/4 in. V 	49739 10142-12	45–55 sq. ft. per gallon
Pre-finished 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.

**Surface Preparation (continued):**

**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.

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.

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 too 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 15 minutes

Working Time: Up to 40 minutes

Shelf Life: One year in unopened container

Product Type: Acrylic polymeric resin

Moisture Vapor Emissions: 3 lbs. or less (ASTM F1869) / 75% or less (ASTM F2170)

pH must not exceed 9.0

Protect from freezing

**Application and Installation:** Check manufacturer’s required expansion spacing around the perimeter of the room and any stationary objects prior to spreading adhesive.

Spread adhesive uniformly. Allow up to 15 minutes of open time before you place your flooring into the adhesive. Adhesive ridges should be

of sufficient height to achieve full coverage of the substrate and the deepest recesses in the back of the flooring material.

Place flooring into the adhesive while the adhesive is still fresh and transfers readily to the flooring backing. The amount of time in which you have to place the flooring will vary with temperature and humidity. The higher the temperature and the lower the humidity the faster the adhesive will set.

Ensure boards are in full contact with the adhesive. Lift a board periodically to see if the adhesive is transferring 100% to the back of the flooring. If the adhesive is not transferring to the backing of the underlayment remove adhesive and reapply.

**After Installation** – Restrict foot traffic and moving of heavy objects for 24 to 48 hours to allow adhesive to cure properly. Premature traffic can cause installation failure.

**Clean Up:** *Fresh adhesive* – warm soapy water. *Dried adhesive* – use mineral spirits sparingly with a clean, white cotton cloth. **DO NOT POUR CLEANER DIRECTLY ONTO FLOORING.**

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 please contact our Technical Services Department at (706) 277-5294.

**Limited Warranty:** Buyer assumes all risk of use, handling and storage of product not in strict accordance with the label, printed literature and industry standards. **This limited warranty excludes all other express or implied warranties including the warranties of merchantability or fitness 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. Some states do not allow these limitations or exclusions, therefore they may not apply. This warranty gives you specific legal rights and you may also have other rights which vary from state to state.

**Available Sizes:**

SIZE	PRODUCT #	UPC
4 Gallon	1404-4	075378140443
1 Gallon	1404-1	075378140412



**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).