

1540

SUPERIOR

ALL-IN-ONE Urethane Flooring Adhesive

1. PRODUCT NAME

ROBERTS® 1540 ALL-IN-ONE Urethane Flooring Adhesive

2. MANUFACTURER

Roberts Consolidated Industries, Inc.

300 Cross Plains Blvd
Dalton, GA 30721
(866) 435-8665 / (706) 277-5294

3. DESCRIPTION

ROBERTS 1540 ALL-IN-ONE is a single step, 100% solids moisture-cure urethane formula designed to perform as an adhesive, moisture vapor barrier, crack suppressant and sound reducer. ROBERTS 1540 adhesive is formulated to bond engineered wood, solid wood and teak bamboo flooring and provides moisture control on concrete slabs (up to 20 lbs. MVER or 90% RH); once cured the adhesive forms a water-resistant membrane.

Sound Ratings

- IIC 70 (ASTM E492 / ASTM E989-06)
- STC 66 (ASTM E90-04 / ASTM E413-04)
- ΔIIC 22 (ASTM 2179-03)




Features and Benefits

- Excellent sound reducer and moisture barrier
- Bridges non-structural cracks in concrete - up to 1/8"
- Remains flexible to expand and contract with wood flooring
- Ideal for use over radiant heat subfloors and to install rubber flooring
- Enviro-Friendly – solvent-free and LEED® compliant; VOC < 1 g/L, SCAQMD Rule 1168

Uses

For bonding solid wood plank, bamboo, flat milled shorts, finger block parquet (plain back) and engineered or acrylic impregnated floorings (that are recommended for glue-down applications) plus to install ceramic and stone inlays. May also be used to glue down cork underlayment and plywood. For use with above-, on-, or below-grade installations.

Coverage and Trowel Options*

	3/16" x 5/32" Flooring: 1/4" to 3/8" Engineered Wood Coverage: 45-50 ft ² per gallon
	1/4" x 3/16" TigerTooth™ Flooring: < 1/2" Solid Wood Flooring Coverage: 30-35 ft ² per gallon
	3/8" x 5/16" Flooring: ≥ 1/2" to ≤ 3/4" Solid Wood Flooring Coverage: 25-30 ft ² per gallon

*The trowel notches referenced are typically recommended for the type of flooring being installed and are used as a guide. Consult flooring manufacturer for their trowel recommendations.

Substrates

When used as an adhesive only– Concrete, APA or PS1-95 grade plywood, underlayment grade oriented strand board (lightly sanded), radiant-heat flooring, vinyl composition tile (well bonded, free of wax, residential engineered wood flooring only), acoustic cork underlayment, primed gypsum underlayment and terrazzo (free of wax/sealers).

When used as an adhesive and moisture vapor barrier– Concrete only.

Limitations

- Ensure moisture content of wood flooring and substrates are within the wood manufacturer's specified range.
- Ensure adequate ventilation during flooring installation.
- It is NOT recommended to install solid wood below-grade.
- Do not use in areas subject to hydrostatic pressure.
- Do not use this product as a moisture vapor barrier over water susceptible substrates such as plywood or gypsum.
- Do not install solid wood flooring, teak or bamboo below grade.
- This adhesive is waterproof when fully cured and will not dissolve if it gets wet. It will not prevent moisture-related damages to wood flooring unless it is used as a moisture barrier (if applicable) within the limitations set forth in the product data sheet.
- CLEAN ANY ADHESIVE FROM SURFACE FLOORING IMMEDIATELY.
- Refer to Safety Data Sheet, www.robertsconsolidated.com, industry standards, and manufacturer's guidelines and specific recommendations prior to installation for additional information.



4. TECHNICAL DATA

Product Type:	Moisture-Cure Urethane
Color:	Creamy tan
Odor:	Mild
Open Time:	Up to 120 minutes
VOC:	< 1 g/L
MVER:	20 lbs or less (ASTM F1869) / 90% RH or less (ASTM F2170)
Shelf Life:	1 year in unopened container
Storage:	Store in a cool, dry place. Keep away from excess heat. Freeze-thaw stable (3 cycles). Does not require thinning.

5. INSTRUCTIONS

Preparation

ROBERTS 1540 may be used as an adhesive and vapor barrier for concrete slabs with elevated moisture levels up to 20 lbs / 1000 ft² /24 hours (using an anhydrous calcium chloride test kit according to ASTM F-1869 test method), or up to 90% relative humidity (tested in accordance with ASTM F-1270). If ROBERTS 1540 is to be used over a radiant heat subfloor, turn the system off during and for 48 hours after the installation.

Subfloors must be structurally sound, dry, smooth, flat ($\leq 3/16"$ within 10'), level and free of excess moisture/alkali and all substances (oil, wax, grease, paint, oil based sealers, adhesive residue, etc.) that may inhibit the bond of the adhesive or the performance of the flooring or its installation.

All substrate cracks, chips, holes, joints, high spots and irregularities must be adequately repaired. Expansion or other moving joints must not be filled or covered with flooring. Patching compounds must be suitable for the use application, cement based and polymer-modified, and applied according to the manufacturer's instructions.

Installation

Substrate, flooring material and adhesive must be fully acclimated prior to installation at the same temperature and humidity level expected during normal use (between 65°F and 95°F) with a relative humidity (RH) no greater than 65%. This product is ready to use and requires no mixing. Maintain the same temperature and humidity during the life of the installation (between 65°F and 95°F). Large temperature or humidity increases or decreases can affect the flooring and performance of the installation. Lift a board periodically to ensure 100% coverage of adhesive to the floor backing and the substrate to ensure a void free bond.

Wet-Lay Method – Apply adhesive with the appropriate notched trowel. Immediately install flooring into wet adhesive.

Walk-On Method – Apply adhesive with the appropriate notched trowel and allow it to develop a slight tack. Install flooring into the adhesive. After your "walk-on" set of boards have been installed, secure them with painter's tape that will not harm prefinished flooring to prevent boards from sliding or separating.

Curing

Up to 8-10 hours. High temperature and high humidity will cause the adhesive to cure faster.

After installation, restrict foot traffic and moving of heavy objects for 24-48 hours to allow adhesive to cure properly. Premature traffic can cause installation failure.

ROBERTS 1540 is a chemical curing adhesive and once dry will form a chemical bond with the flooring surface. Clean any adhesive from surface flooring immediately with ROBERTS 5505 Urethane Adhesive Remover.

Clean-up

IT IS VERY IMPORTANT TO REMOVE THIS ADHESIVE WHILE IT IS STILL FRESH AND BEFORE IT HAS COMPLETELY CURED.

Fresh adhesive – Use ROBERTS 5505 Urethane Adhesive Remover sparingly with a clean, white cotton cloth to immediately clean any adhesive from the floor surface. Always test on a scrap of flooring material prior to using on an installed floor to ensure that the cleaner will not damage the surface. DO NOT POUR CLEANER DIRECTLY ONTO FLOORING. ONCE ROBERTS 1540 CURES, IT IS EXTREMELY DIFFICULT TO REMOVE.

6. AVAILABILITY

Packaging

4 gallon Metal Pail (15.14 L)	R1540-4	075378154044
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7. WARRANTY

10-Year Direct Bond

ROBERTS warrants that this product will be free from manufacturing defects for 12 months from the date of manufacture, 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 for full warranty details.

8. MAINTENANCE

Not applicable.

9. TECHNICAL SERVICES

For technical assistance or installation questions not covered in this document, please contact our Technical Services Department at (706) 277-5294 or visit robertsconsolidated.com.

10. FILING SYSTEM

Division 9



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